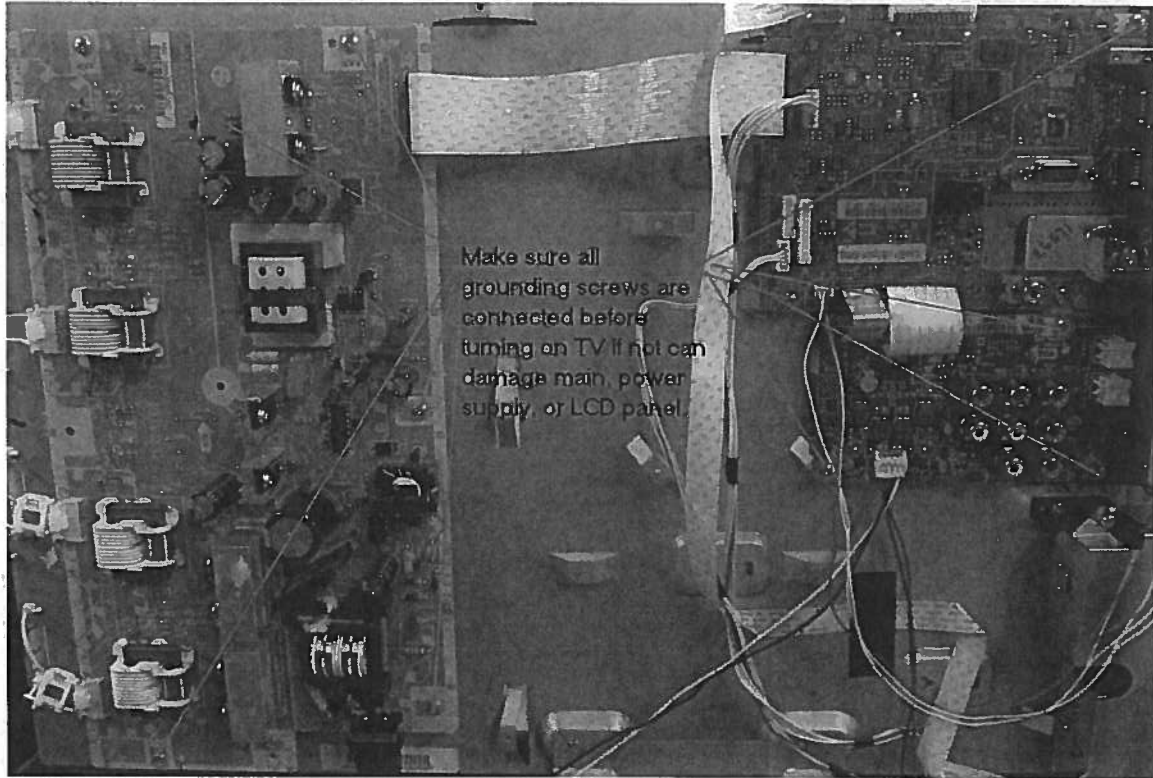


ATTENTION ON ALL DVD/TV combo TV's

When working on a TV/DVD combo unit make sure you have all your ground screws connected when turning on TV if not can damage the main board, power supply, or LCD panel.



WHEN REPLACING DVD DECK

[When removing the DVD Deck]

Before removing Pick Up PCB and DVD MT PCB connector, the short circuit the position shown in Fig. 1 using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.

[When installing the DVD Deck]

Remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

NOTE

- Before your operation, please read "PREPARATION OF SERVICING".
- Use the Lead Free solder.
- Manual soldering conditions
 - Soldering temperature: $320 \pm 20^{\circ}\text{C}$
 - Soldering time: Within 3 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
- When Soldering/Removing of solder, use the draw in equipment over the Pick Up Unit to keep the Flux smoke away from it.

There are 4 solder pads. If the top & bottom pads are shorted together, this solder must be removed for the DVD to operate.

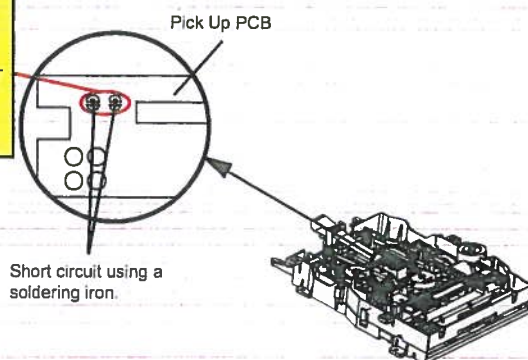


Fig. 1

PREPARATION OF SERVICING

The laser diode used for a pickup head may be destroyed with external static electricity. Moreover, even if it is operating normally after repair, when static electricity discharge is received at the time of repair, the life of the product may be shortened. Please perform the following measure against static electricity, be careful of destruction of a laser diode at the time of repair.

- Place the unit on a workstation equipped to protect against static electricity, such as conductive mat.
- Soldering iron with ground wire or ceramic type is used.
- A worker needs to use a ground conductive wrist strap for body.

There are 4 solder pads in the "white" circle. The top & bottom pads are shorted together from the factory and this solder must be removed for the DVD to operate.

The solder short has been removed. It is difficult to see, but the top & bottom pads are not connected/shorted. DVD will operate.



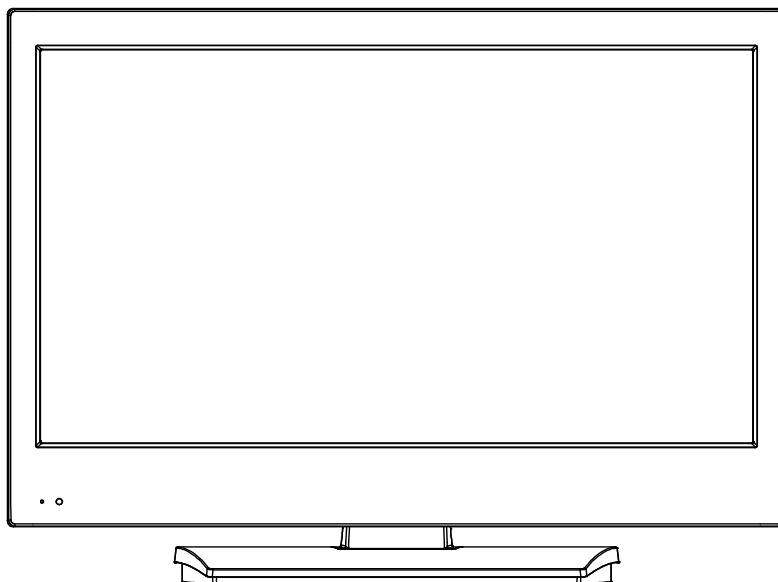


SANYO Factory Code Z6BF
Service Reference NO. 715

DP26671

SERVICE MANUAL

26" HDTV LCD / DVD Combo



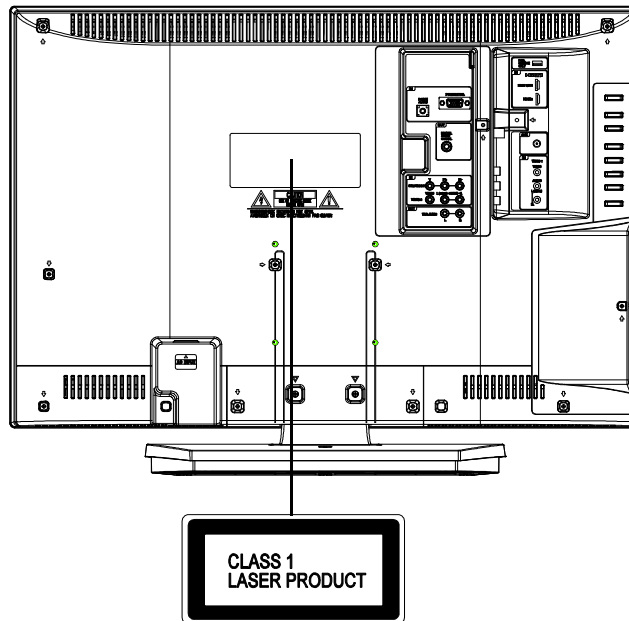
ORIGINAL
MFR'S VERSION A

IMPOTANT WARNING

CAUTION:

DVD PLAYER IS A CLASS 1 LASER PRODUCT. HOWEVER THIS PLAYER USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE PLAYER.



(Printed on the Rear Panel)

WHEN THIS PLAYER IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS PLAYER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.

Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a  mark, the designated parts must be used.

4. BE CAREFUL WITH THE LCD PANEL

Avoid a shock to the panel while servicing. Take enough care to deal with it.

5. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board. The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.

6. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

(INSULATION CHECK PROCEDURE)

1. Unplug the plug from the AC outlet.
2. Remove the antenna terminal on TV and turn on the TV.
3. Insulation resistance between the cord plug terminals and the external exposure metal **[Note 2]** should be more than 1M ohm by using the 500V insulation resistance meter **[Note 1]**.
4. If the insulation resistance is less than 1M ohm, the inspection repair should be required.

[Note 1]

If you have not the 500V insulation resistance meter, use a Tester.

[Note 2]

External exposure metal: Antenna terminal
Headphone jack

HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the VERSION LETTER.)

1. MODEL NUMBER and VERSION LETTER

The MODEL NUMBER can be found on the back of each product and the VERSION LETTER can be found at the end of the SERIAL NUMBER.

2. PART NO. and DESCRIPTION

You can find it in your SERVICE MANUAL.

IMPORTANT

When you exchange IC and Transistor with a heat sink, apply silicon grease (YG6260M) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damage to the IC and Transistor).

WHEN REPLACING DVD DECK

[When removing the DVD Deck]

Before removing Pick Up PCB and DVD MT PCB connector, the short circuit the position shown in **Fig. 1** using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.

[When installing the DVD Deck]

Remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

NOTE

- Before your operation, please read "PREPARATION OF SERVICING".
- Use the Lead Free solder.
- Manual soldering conditions
 - Soldering temperature: $350 \pm 5^{\circ}\text{C}$
 - Soldering time: Within 4 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
- When Soldering/Removing of solder, use the draw in equipment over the Pick Up Unit to keep the Flux smoke away from it.

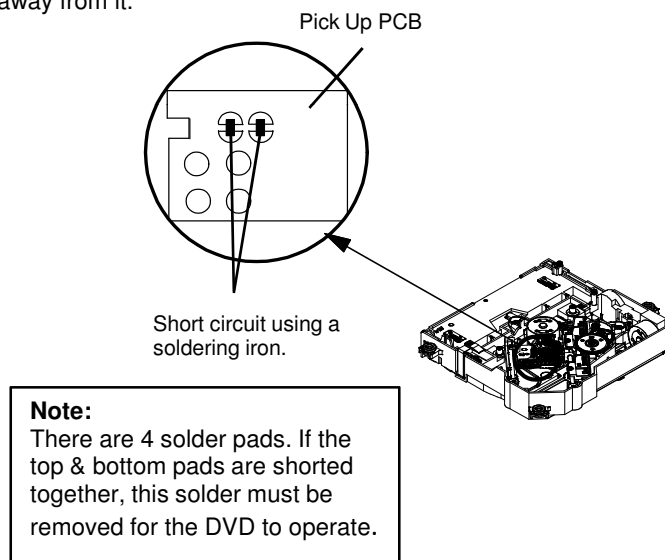


Fig. 1

PREPARATION OF SERVICING

The laser diode used for a pickup head may be destroyed with external static electricity. Moreover, even if it is operating normally after repair, when static electricity discharge is received at the time of repair, the life of the product may be shortened. Please perform the following measure against static electricity, be careful of destruction of a laser diode at the time of repair.

- Place the unit on a workstation equipped to protect against static electricity, such as conductive mat.
- Soldering iron with ground wire or ceramic type is used.
- A worker needs to use a ground conductive wrist strap for body.

DISC REMOVAL METHOD AT NO POWER SUPPLY

1. Remove the Stand A'ssy, Back Cabi Ass'y.
(Refer to item 1 of the DISASSEMBLY INSTRUCTIONS.)
2. Slide the Rack Base toward the arrow direction by hand to release the lock. (Refer to Fig. 1)
3. Take out the Disc from the DVD Deck. Be careful not to scratch on the Disc.

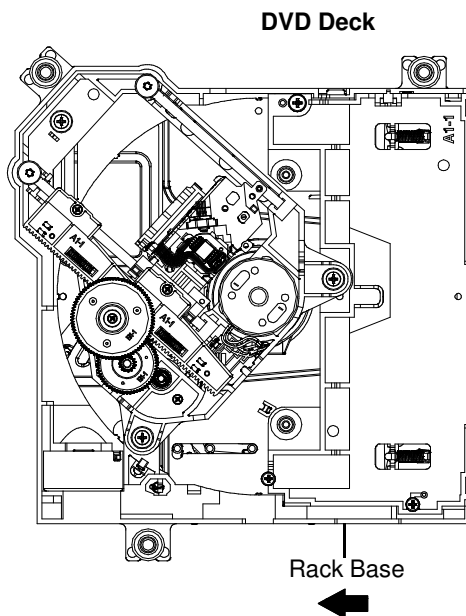
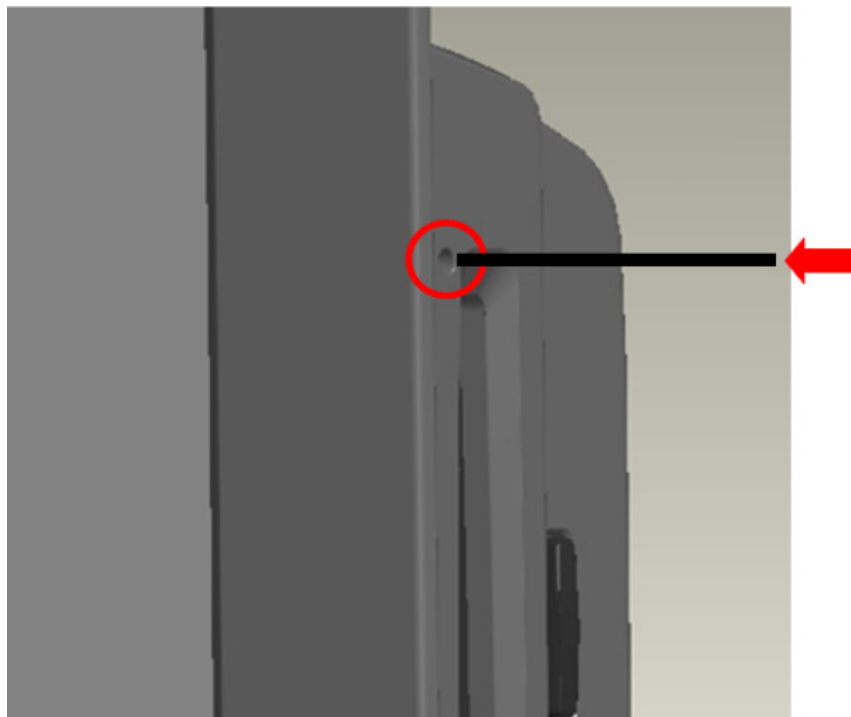


Fig. 1

HOW TO DSM-5 DISC IRREGULAR EJECT

1. You must be take off power cord first and waiting until Disc stop then proceeding further.
2. Insert the long wood bar or steel bar (diameter



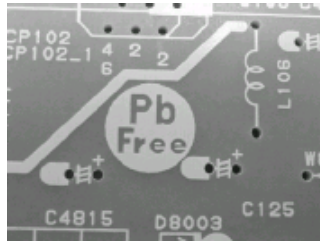
Caution:

- Please take out Disc with the above method. If you use other method, it maybe NG.
- Use this method only emergency case. If you use it in case of DVD Unit is normal, it maybe NG.
- While Disc is playing back, reading or searching, do not take out it with this method.
Disc maybe scratch if you take out it while it's reading.

ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF printing on the PCB.
(Please refer to figures.)



Caution:

- Pb free solder has a higher melting point than standard solder;
Typically the melting point is 86°F~104°F(30°C~40°C) higher.
Please use a soldering iron with temperature control and adjust it to 650°F ± 20°F (350°C ± 10°C).
In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).
- All products with the printed circuit board with PbF printing must be serviced with lead free solder.
When soldering or unsoldering, completely remove all of the solder from the pins or solder area,
and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

Recommendations

Recommended lead free solder composition is Sn-3.0Ag-0.5Cu.

HOTEL MODE FUNCTION

To set the Hotel mode, please follow the steps below.

1. In power on mode, set the VOLUME to minimum.
2. Press and hold the VOLUME DOWN button on the front panel.
3. Simultaneously press and hold the MENU button on the remote control for more than 2 seconds.
4. The Hotel mode setting menu will appear.
5. Using the UP/DOWN button on the remote control, select the desired mode. Then press the ENTER button.
6. Using the LEFT/RIGHT button on the remote control, set the mode to desired setting.
7. Using the UP/DOWN button on the remote control, select the ENTER. Then press the ENTER button of remote control.
8. The Hotel mode has now been set up.



To reset the Hotel mode, please follow the steps below.

1. In power on mode, set the VOLUME to minimum.
2. Press and hold the VOLUME DOWN button on the front panel.
3. Simultaneously press and hold the MENU button on the remote control for more than 2 seconds.
4. The Hotel mode setting menu will appear.
5. Using the UP/DOWN button on the remote control, select the RESET. Then press the ENTER button on the remote control.
6. The setting items has now been returned to initial value.

Setting item	Setting value	Initial value	FUNCTION
Maximum volume	0~50	50	Setting of the maximum volume value.
Panel button	RESPOND/ NO RESPOND	RESPOND	Effective/invalid setting of main key operation. (*Note 1)
Menu button			Effective/invalid setting of Menu key operation of set and remote control. (*Note 1)
Input mode start	NORMAL/ TV/AV/ COMPONENT/ HDMI/PC	NORMAL	Setting of input source at power supply On. (*Note 2)
Reset	——	——	Various settings of the Hotel mode function return initial State.

Note 1) Even if setting it to "No Respond", the service mode function are effective.

Note 2) If setting it to "NORMAL", it start up in same input source when you turn off the power before.

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GENERAL SPECIFICATIONS

G-1	TV System	LCD	LCD Size / Visual Size	26.01 inch / 660.5mmV
			LCD Type	Color TFT LCD
			Number of Pixels	1366(H) x 768(V)
			Double Scan	No
			View Range	80/80 degree
			Left/Right Up/Down	80/70 degree
G-2	DVD System		Bright Dot	n ≤ 2
			Zero Bright Dot Ratio	70%
		Color System		NTSC
		Speaker		2 Speaker
			Position	Bottom
			Size	1.6 x 4.8 inch
G-3	Tuning System		Impedance	8 ohm
		Sound Output	Max	5.0W + 5.0W
			10%(Typical)	---
		Color System		NTSC
		Disc		DVD-ROM, CD-ROM, CD-R/RW, DVD-R/-RW/-R DL
		Disc Diameter		120 mm
G-4	Signal	Drive		DSM-5
		Search speed	Fwd	4 step
			Actual	4, 8, 16, 32 times
			Rev	4 step
			Actual	4, 8, 16, 32 times
		Slow speed	Fwd	4 step
G-5	Power		Actual	1/16, 1/8, 1/4, 1/2 times
			Actual	4 step
			Actual	1/16, 1/8, 1/4, 1/2 times
			Actual	4 step
			Actual	1/16, 1/8, 1/4, 1/2 times
		Zoom	Zoom	2 step
G-6	Regulation		Actual	2, 4 times
		Broadcasting System	Analog	US System M
			Digital	ATSC(8VSB)/QAM
		Tuner and Receive CH	System	1Tuner
			Destination	US (W/CABLE)
		CH Coverage		2~69, 4A, A-5~A-1, A~I, J~W, W+1~W+94
G-7	Intermediate	Digital		44.00MHz
		Frequency	Analog	45.75MHz
			Picture(FP)	41.25MHz
			Sound(FS)	4.50MHz
			FP-FS	No
		Preset CH		US-Stereo
G-8	Stereo/Dual TV Sound			Yes
		Tuner Sound Muting		Yes
		Video Signal	Input Level	1 V p-p/75 ohm
			Output Level	--
			S/N Ratio (Weighted)	--
			Horizontal Resolution at DVD Mode	--
G-9	RGB Signal		--	--
		RGB Signal	Output Level	--
		Audio Signal	Input Level	-8.0dBm/50k ohm
			Output Level at DVD	-12 dBm/ 1k ohm (-20dBFS, 0dBFS=2.0Vrms)
			at TV	0-600mV /1k ohm
			Digital Output Level	0.5 V p-p/75 ohm
G-10	S/N Ratio at DVD (Weighted)			85dB
				0.02% (1KHz)
		Frequency Response :	at DVD	4 Hz - 44 KHz (96KHz)
			at Video CD	--
			at SVCD	--
			at CD	4 Hz - 20 KHz
G-11	Power Source	AC		120V, 60Hz
		DC		--
		Power Consumption	at AC	71W at 120V 60Hz
			at DC	--
			Stand by (at AC)	0.3W at 120V 60Hz
			Energy Star	Yes
G-12	NR Canada		Per Year	No
				-- kWh/Year
		Protector	Power Fuse	Yes
			Safety Circuit	Yes
			IC Protector(Micro Fuse)	Yes
G-13	Safety			UL(UL60065_7th)/cUL(CSA E60065_03)
				FCC/IC
				DHHS (IEC60825-1)

GENERAL SPECIFICATIONS

G-7	Temperature	Operation	+5°C ~ +40°C
		Storage	-20°C ~ +60°C
		Space Around Unit	10cm (4inch)
G-8	Operating Humidity		Less than 80% RH
G-9	Clock and Timer	Clock	No
		Sleep Timer	Max Time
		On Timer	Program
		Off Timer	Program
		Game Timer	No
		Timer Back-up (at Power Off Mode)	more than -- Min Sec
G-10	Remote Control	Unit	RC-SC
		Glow in Dark Remocon	No
		Remocon Format	SANYO
		Format	NEC
		Custom Code	38-C7 h
		Power Source	3V
		Voltage(D.C)	UM-3 x 2 pcs
		UM size x pcs	
		Total Keys	50 Keys
		Keys	
		POWER	Yes
		DISPLAY/-	No
		DISPLAY	Yes
		"-"	Yes
		TV/DVD	Yes
		EJECT	Yes
		1	Yes
		2	Yes
		3	Yes
		4	Yes
		5	Yes
		6	Yes
		7	Yes
		8	Yes
		9	Yes
		0	Yes
		MUTE	Yes
		SLEEP	Yes
		SETUP/TV MENU	Yes
		DVD MENU	Yes
		ENTER	Yes
		Left	Yes
		Right	Yes
		Up	Yes
		Down	Yes
		CH+	Yes
		CH-	Yes
		VOL+	Yes
		VOL-	Yes
		CH+ / Up	No
		CH- / Down	No
		VOL+ / Right	No
		VOL- / Left	No
		EXIT/CANCEL	Yes
		TOP MENU	Yes
		SEARCH-	Yes
		PLAY	Yes
		SEARCH+	Yes
		SKIP-	Yes
		SUBTITLE	Yes
		STOP	Yes
		SKIP+	Yes
		SLOW-	Yes
		PAUSE	Yes
		PLAY MODE	Yes
		SLOW+	Yes
		AUDIO	Yes
		RETURN	Yes
		REPEAT A-B	Yes
		ANGLE	Yes
		Picture Size	Yes
		MARKER	Yes
		CCD/JUMP	Yes
		Recall(Quick View)/ZOOM	Yes
		INPUT SELECT	Yes
		FREEZE	No

GENERAL SPECIFICATIONS

G-11	Features	Auto Shut Off	Yes
		Auto Search	No
		Power On Memory	Yes
		Hotel Mode	Yes
		Comb Filter	Yes 3-D
		Game Position	No
		Auto Setup	Yes
		Language	No
		TV Location	Yes
		E-POP Demo	No
		Signal Type	Yes
		Automatic Search	Yes
		Auto Setup(in Setup Menu)	Yes
		Picture Setting(TV)	Yes
		Picture Preference	Yes
		Brightness , Contrast , Color	Yes
		Tint	Yes
		Sharpness	Yes
		Color Temperature	Yes
		DNR	Yes
		Backlight	Yes
		Picture Setting(PC)	Yes
		HOR Position , VER Position	Yes
		Phase, Clock	Yes
		Red, Green, Blue	No
		Auto Adjust	Yes
		Audio	MTS
		Equalizer Mode	Yes
		Tone Control (Bass/Treble/Balance)	Yes
		Equalizer Setting	Yes
		Stable Sound	No
		Surround	Yes
		Auto Volume(Automatic Volume Control)	Yes
		BBE	No
		SRS WOW (SRS 3D/Focus/Tru Bass)	No
		HDMI Audio	Yes
		Speakers(Variable Audio Out)	Yes
		Tuning	CH Program
		Air/Cable	Yes
		ADD/DELETE	Yes
		Label	CH Label
		Video Label	Yes
		Favorite CH	No
		V-Chip	Yes
		Type	USA Type
		RRT Setup	Yes
		Lock	Hotel Lock
		Channel Lock	No
		Video Lock	No
		Panel Lock	No
		Menu Language	Englis
		DBC (Dynamic Backlight Control)	Yes
		Dynamic Gamma	No
		Signal Meter (DTV Signal)	Yes
		Closed Caption	Yes
		CC Advanced	Yes
		V-Chip Clear	Yes
		V-Chip Protect Temporary Unlock	No (From '11.SEP O/R)
		Picture Size	Yes
		Film Mode	Yes
		Auto Aspect	No
		PFC(Power Factor circuit)	No
		Freeze frame	No
		PIP/POP	No
		Direct Input Selection	Yes
		PC Plug and Play	No
		Energy Star LOGO (OSD)	Yes
		PC Standby	Yes

GENERAL SPECIFICATIONS

	USB		Yes (Some USB devices may not be usable.)
	Time Shift		No
	Playback File	DivX	No
		MPEG-4 Visual	No
		H.264/MPEG-4 AVC	No
		WMV	No
		Real Media	No
		MP3	No
		WMA	No
		MPEG-4 AAC	No
		WAV	No
		FLAC	No
		JPEG	No
	iPod		No
	iPhone		No
	iPad		No
	HDD		No
	Software Update		Yes
	Digital Out	Dolby Digital	Yes
		MPEG	No
		PCM	Yes
		DTS	No
	PC Monitor Input		Yes
		VGA (640x480)	Yes (60,72,75Hz)
		VGA (720x400)	Yes (70Hz)
		WVGA (848x480)	No
		SVGA (800x600)	Yes (56,60,72,75Hz)
		XGA (1024x768)	Yes (60,70,75Hz)
		WXGA (1280x768)	Yes (60Hz)
		WXGA (1280x720)	Yes (60Hz)
		WXGA (1360x768)	Yes (60Hz)
		SXGA (1280x1024)	No
	HDMI Input	WXGA+ (1440x900)	No
		FHD (1920x1080)	No
			Yes
		VGA (640x480)	Yes (60Hz)
		720x480i (4:3)	Yes (60Hz)
		720x480i (16:9)	Yes (60Hz)
		720x480p (4:3)	Yes (60Hz)
		720x480p (16:9)	Yes (60Hz)
		720x576i (4:3)	No
		720x576i (16:9)	No
	DVI to HDMI Input	720x576p (4:3)	No
		720x576p (16:9)	No
		1280x720p	Yes (60Hz)
		1920x1080i	Yes (60Hz)
		1920x1080p	Yes (60Hz)
		CEC (ORION Standard)	No
		Deep Color	No
		xvYCC	No
		VGA (640x480)	Yes (60,72,75Hz)
		VGA (720x400)	Yes (70Hz)
	Component Input	WVGA (848x480)	No
		SVGA (800x600)	Yes (56,60,72,75Hz)
		XGA (1024x768)	Yes (60,70,75Hz)
		WXGA (1280x768)	Yes (60Hz)
		WXGA (1280x720)	Yes (60Hz)
		WXGA (1360x768)	Yes (60Hz)
		SXGA (1280x1024)	No
		WXGA+ (1440x900)	No
		FHD (1920x1080)	No
			Yes
		720x480i (4:3)	Yes (60Hz)
		720x480i (16:9)	Yes (60Hz)
		720x480p (4:3)	Yes (60Hz)
		720x480p (16:9)	Yes (60Hz)
		720x576i (4:3)	No
		720x576i (16:9)	No
		720x576p (4:3)	No
		720x576p (16:9)	No
		1280x720p	Yes (60Hz)
		1920x1080i	Yes (60Hz)
		1920x1080p	No

GENERAL SPECIFICATIONS

	Wall Mount	Size W x H(mm)	Yes (100 x 100)
		Screw Size	M4 x 10
	Stand	Tilt	No
		Swivel	No
Features (DVD/CD)	Progressive Video Out		No
	Digital Out	(Dolby Digital)	Yes
		(MPEG)	Yes
		(PCM)	Yes
		(DTS)	No (Possible to output)
	Decode(Down Mi:	(Dolby Digital)	Yes
		(DTS)	No
		(SACD)	No
		(DVD-Audio)	No
	Surround		No
	Dynamic Range Control		Yes
	Fast Play (w/Audio, Subtitle)		No
	Audio DAC		192kHz
	BNR		No
	Disc Navigator		Yes
	TV Screen	4:3 (Letter Box, Pan Scan)	Yes
		16:9 (Wide)	Yes
	Playback Format	DVD-Video	Yes (DVD-ROM, DVD-R/-RW/-R DL)
		DVD-VR	No
		CPRM	No
		Logo (RW Compatible)	No
		DVD+VR	No
		VCPS	No
		AVCREC	No
		CPRM	No
		CDDA	Yes (CD-ROM, CD-R/RW)
		Data Disc	Yes (CD-ROM, CD-R/RW, DVD-R/-RW/-R DL)
		Video CD	No
		SVCD	No
		SACD	No
		DVD-Audio	No
		CPPM	No
		Fujicolor CD	Yes (CD-ROM, CD-R/RW)
		KODAK Picture CD	Yes (CD-ROM, CD-R/RW)
		DTS CD	Yes (CD-ROM, CD-R/RW, Digital Out only)
	Playback File	DivX	No
		DMF Support	No
		MPEG-4 Visual	No
		H.264/MPEG-4	No
		WMV	No
		Real Media	No
		MP3	Yes
		WMA	Yes
		MPEG-4 AAC	No
		WAV	No
		FLAC	No
		JPEG	Yes
		AVCHD	No
	Macrovision		Yes (No Video Out)
	Closed Caption signal in VBI (DVD Playback)		Yes
	CGMS-A in XDS		Yes
	Play Mode	A-B Repeat	Yes
		Repeat	Yes
		Random (Shuffle)	Yes
		Program	Yes
		Search Mode (Jump)	Yes
	Screen Saver		No
	Auto Power Off		No
	Power Resume		No
	Auto Stop		Yes
	Tray Lock		No

GENERAL SPECIFICATIONS

G-12	Accessories	Owner's Manual		Language	English / Spanish
				w/Guarantee Card	Yes
		Remote Control Unit			Yes
		Rod Antenna			No
				Poles	--
				Terminal	--
		Loop Antenna			No
				Terminal	--
		U/V Mixer			No
		DC Car Cord (Center+)			No
		Guarantee Card			No
		Warning Sheet			No
		Circuit Diagram			No
		Antenna Change Plug			No
		Service Facility List			No
		Important Safeguard			No
		Dew/AHC Caution Sheet			No
		Quick Set-up Sheet			No
		Battery			No
				UM size x pcs	--
				OEM Brand	--
		AC Adapter			No
		AC Cord (for AC Adapter)			No
		AC Cord			Yes
		Cable Tie			No
		AV Cord (2Pin-1Pin)			No
		Registration Card (NDL Card)			No
		300 to 75ohm Antenna Adapter			No
		Sheet Information (FCC)			No
		Sheet Information (DTV)			No
		Sheet Information (Return)			Yes
		Sheet Information (Picture Quality)			Yes
		Sheet Information (Sheet Set Up)			No
		Sheet Information (HDMI)			No
		Sheet Information (CEA)			No
		Cleaning Cloth			No
		Stand Screw			Yes(5pcs)
		Stand			Yes
		Frame Stand			Yes
G-13	Interface	Switch	Side	Power (Tact)	Yes
				Channel Up/Menu Up/Play	Yes
				Channel Down/Menu Down/Stop	Yes
				Volume Up/Menu >	Yes
				Volume Down/Menu <	Yes
				Menu	Yes
				Play	No (CH+ Alternative)
				Eject	Yes
				Skip+, Search+	No
				Skip-, Search-	No
		Indicator	Rear	Still/Pause	No
				Stop	No (CH- Alternative)
				Main Power SW	No
				Input Select/Enter	Yes
				Main Power SW	No
				Power/Stand-By	Yes (Green / Red)
				PC Stand-By	Yes (Red Blinking)
				Power Wake Up	No
				On Timer	No

GENERAL SPECIFICATIONS

	Terminals	Side	Video Input 1	RCA x 1
			Audio Input 1	RCA x 2(L/MONO, R)
			S - Input 1	No
			HDMI Input 1	Yes
			Analog Audio	PC Audio Input Alternative
			HDMI Input 2	Yes
			Analog Audio	No
			VHF/UHF Antenna Input	F Type
			USB (Software Update)	Yes
			Video Input 2	RCA x 1
			Audio Input 2	RCA x 2(L/MONO, R)
			S - Input 2	No
			Video Output	No
			Audio Output	RCA x 2 (Variable) (L, R)
			Component Input 1	RCA x 3
			Analog Audio	Video Input 2 Audio Input Alternative
			Component Input 2	No
			Analog Audio	No
			Sub Woofer Out	No
			PC Monitor Input	Yes
			Analog Audio	Mini Pin Jack(ϕ 3.5), STEREO
			Digital Audio Output	Coaxial
			DC Jack (Center +)	No
			Video Input 3	No
			Audio Input 3	No
			S - Input 3	No
			Other Terminal	No
			AC Inlet	Yes
			USB (JPEG/MP3/Software Update)	No
G-14	Set Size		Approx. W x D x H (mm)	630.0 x 213.3 x 475.8
			w/o Handle, Stand Approx. W x D x H (mm)	630.0 x 81.0 x 428.0
G-15	Weight		Net (Approx.)	6.5kg(14.3lbs)
			Net w/o Handle, Stand (Approx.)	6.0kg(13.2lbs)
			Gross (Approx.)	7.9kg(17.4lbs)
			Gross w/Master Carton (Approx.)	--- kg (--- lbs)
G-16	Carton	Master Carton		No
			Content	--- Sets
			Material	--- / ---
			Dimensions W x D x H(mm)	---
			Description of Origin	---
		Gift Box	Material	Double/White
			W/Color Photo Label	No
			W/Handle	No
			Dimensions W x D x H(mm)	732 x 176 x 515
			Description of Origin	No
		Drop Test		1 Corner / 3 Edges / 6 Surfaces
			Height (cm)	62
		Container Stuffing (40' container)		844 Sets/40' container
		w/Pallet		No
		w/Wrapping		No
G-17	Material	Cabinet	Front	ABS 94HB
			Rear	PS 94V0 NON-DECABROM
			Stand	PS 94HB
			Jack Panel	--
		PCB	Non-Halogen Demand	No
			Eyelet Demand	Yes
G-18	Environment	Environmental standard requirement		Green procurement of SANYO
		Pb-free		Phase3(Phase3A)
			Measures for Whisker	Yes
		Rohs		Yes

DISASSEMBLY INSTRUCTIONS

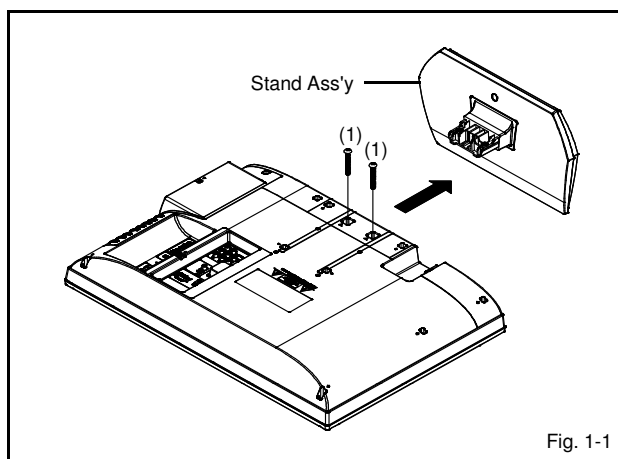
1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS

CAUTION

Be careful not to remove the LVDS cable forcibly, because the LVDS cable may be damaged.

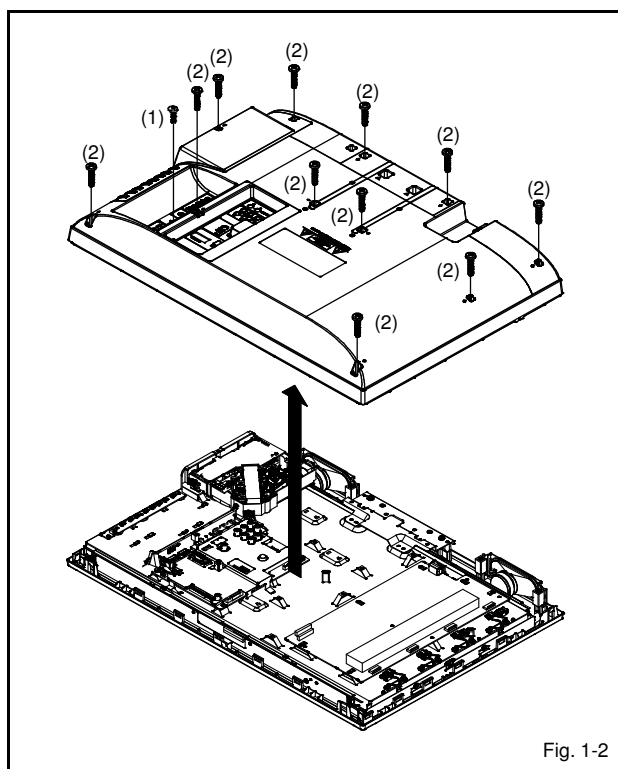
1-1: STAND ASS'Y (Refer to Fig. 1-1)

1. Remove the 2 screws (1).
2. Remove the Stand Ass'y in the direction of arrow.



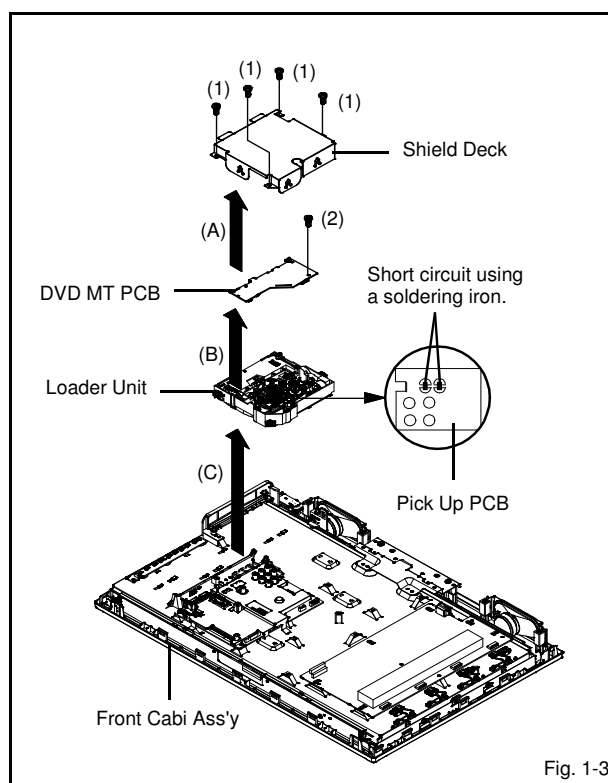
1-2: BACK CABI ASS'Y (Refer to Fig. 1-2)

1. Remove the screw (1)
2. Remove the 11 screws (2)
3. Remove the Back Cabi Ass'y in the direction of arrow.



1-3: DVD MT PCB/LOADER UNIT (Refer to Fig. 1-3)

1. Remove the 4 screws (1).
2. Remove the Shield Deck in the direction of arrow (A).
3. Remove the screw (1).
4. Remove the DVD MT PCB in the direction of arrow (B).
5. Disconnect the following connectors:
6. (CP2301, CP2302, CP2303, CP8501 and CP8502).
7. Remove the Loader Unit in the direction of arrow (C).



NOTE

1. Before your operation, please read "PREPARATION OF SERVICING".
2. Use the Lead Free solder.
3. Manual soldering conditions
 - Soldering temperature: $320 \pm 20^{\circ}\text{C}$
 - Soldering time: Within 3 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
4. When Soldering/Removing of solder, use the drawing equipment over the Pick Up Unit to keep the Flux smoke away from it.
5. When installing the DVD Deck, remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

DISASSEMBLY INSTRUCTIONS

1-4: MAIN PCB ASS'Y (Refer to Fig. 1-4)

1. Remove the 6 screws (1)
2. Remove the Plate Jack in the direction of arrow (A).
3. Remove the Shield Jack in the direction of arrow (B).
4. Disconnect the following connectors:
(CP2804, CP3002, CP3003, CP4201 and CP6201).
5. Remove the Main PCB Ass'y in the direction of arrow (C).

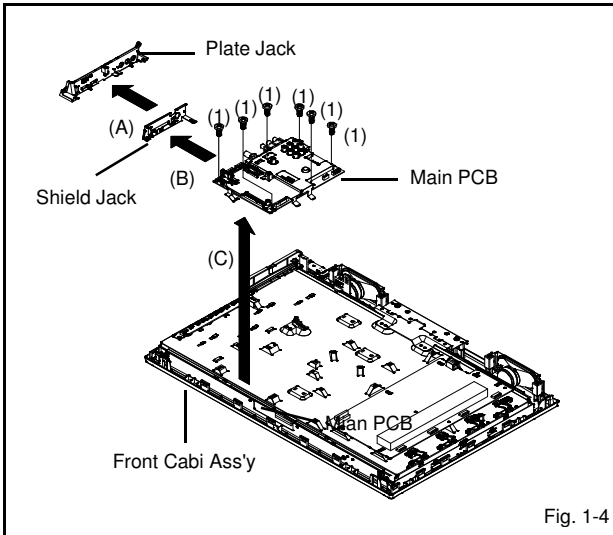


Fig. 1-4

1-5: POWER PCB / REMOCON PCB / OPERATION PCB (Refer to Fig. 1-5)

1. Disconnect the following connectors:
(CP7001, CP7002, CP7003 and CP7004).
2. Remove the 7 screws (1)
3. Remove the Power PCB in the direction of arrow (A).
4. Remove the screw (2)
5. Remove the Operation PCB in the direction of arrow (B).
6. Unlock the 2 supports (3).
7. Remove the Remocon PCB in the direction of arrow (C).

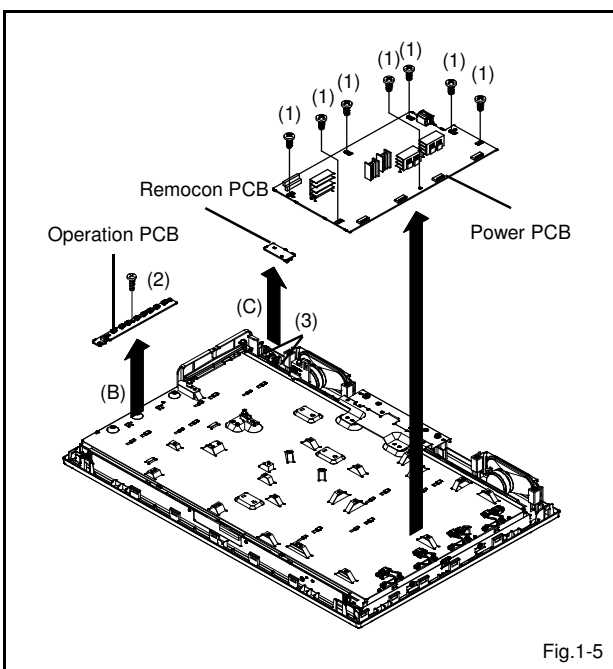


Fig.1-5

DISASSEMBLY INSTRUCTIONS

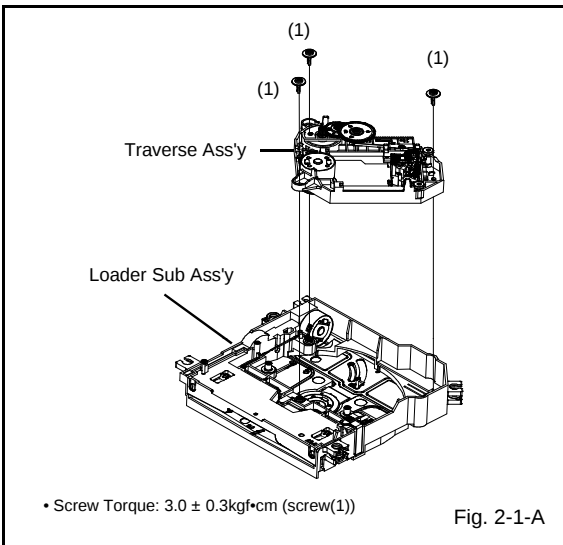
2. REMOVAL OF DVD DECK PARTS

NOTE

1. Disassemble only the DVD DECK PARTS parts listed here. Minute adjustments are needed if the disassembly is done. If the repair is needed except listed parts, replace the DVD MECHA ASS'Y.

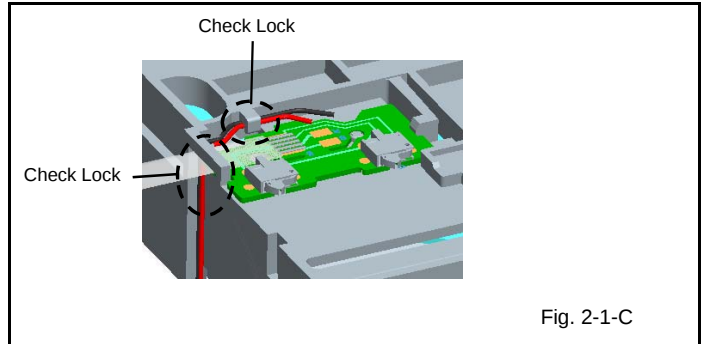
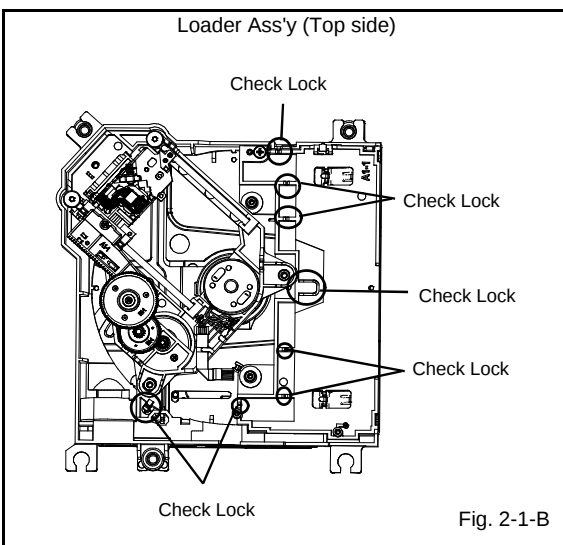
2-1: TRAVERSE ASS'Y/LOADER SUB ASS'Y (Refer to Fig. 2-1-A)

1. Remove the 3 screws (1).
2. Remove the Traverse Ass'y.



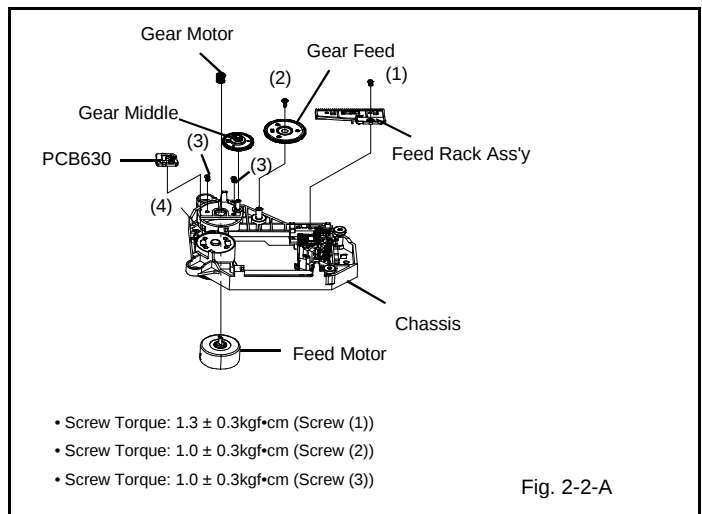
NOTE

1. In case of the Traverse Ass'y installation, hook the wire on the Loader Ass'y as shown Fig. 2-1-B to Fig. 2-1-C.



2-2: FEED RACK ASS'Y/GEAR FEED/GEAR MOTOR/ GEAR MIDDLE/FEED MOTOR/PCB630 (Refer to Fig. 2-2-A)

1. Remove the screw (1).
2. Remove the Feed Rack Ass'y.
3. Remove the screw (2).
4. Remove the Gear Feed.
5. Remove the Gear Middle.
6. Remove the Gear Motor.
7. Remove the 2 screws (3).
8. Remove the Feed Motor.
9. Unlock the support (4).
10. Remove the PCB630.



DISASSEMBLY INSTRUCTIONS

NOTE

1. In case of the Gear Motor installation, check if the value of the Fig. 2-2-B is correct.
2. When installing the wire of the PCB630 install it correctly as Fig. 2-2-C.
Manual soldering conditions
 - Soldering temperature: $350 \pm 5^{\circ}\text{C}$
 - Soldering time: Within 4 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
3. When installing the Feed Rack Ass'y, push both ends to align the teeth as shown Fig. 2-2-D. Then install it.
4. After the assembly of the Traverse Ass'y, hook the wire on the Traverse Ass'y as shown Fig. 2-2-E.

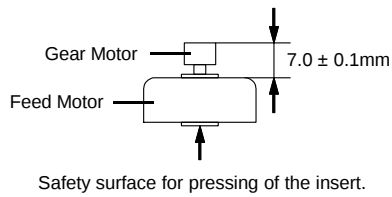


Fig. 2-2-B

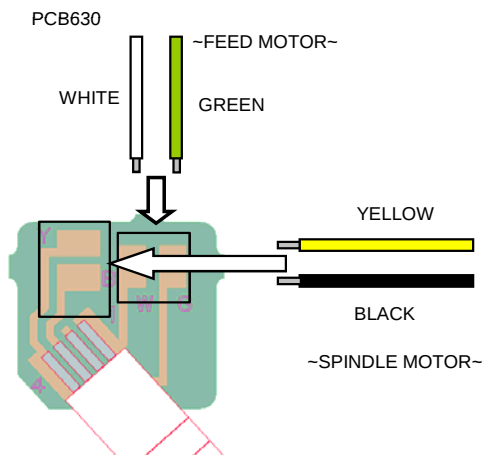


Fig. 2-2-C

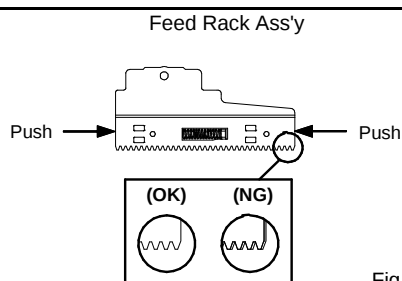
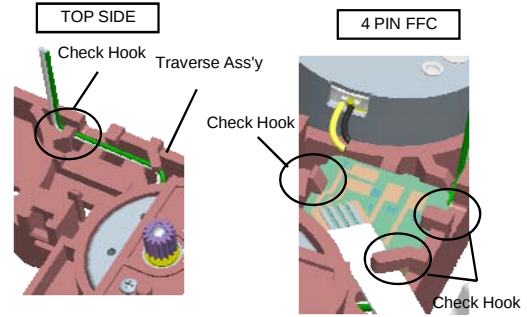


Fig. 2-2-D

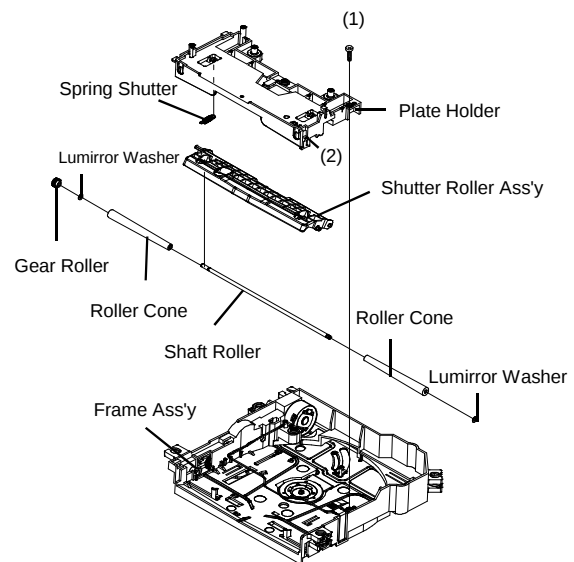


- In case of remove FEED MOTOR that has to arrange wire as following the picture on above.

Fig. 2-2-E

2.3: SPRING SHUTTER/PLATE HOLDER/SHUTTER ROLLER ASS'Y/ROLLER ASS'Y/GEAR ROLLER/LUMIRROR WASHER/ROLLER CONE/SHAFT ROLLER (Refer to Fig. 2-3-A)

1. Remove the Spring Shutter.
2. Remove the screw (1).
3. Unlock the support (2).
4. Remove the Plate Holder.
5. Remove the Shutter Roller Ass'y.
6. Remove the Roller Ass'y .
7. Remove the Gear Roller.
8. Remove the Lumirror Washer.
9. Remove the Roller Cone.
10. Remove the Shaft Roller.



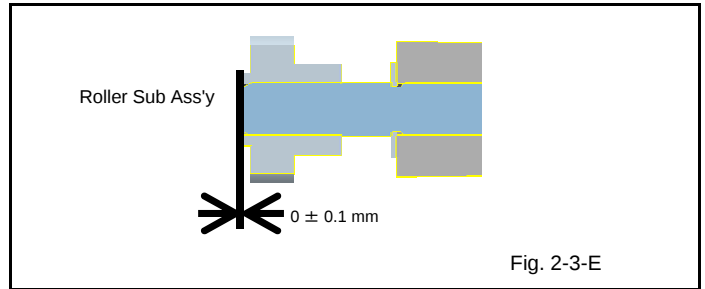
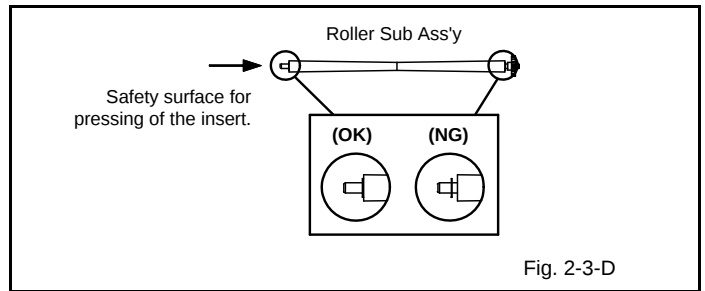
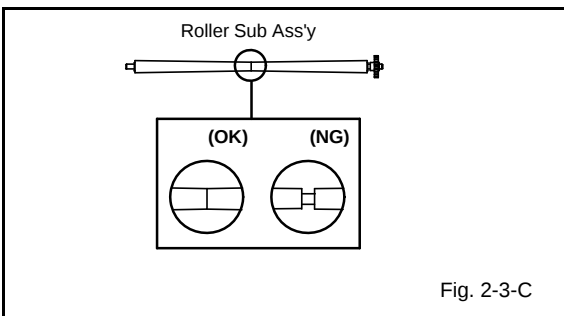
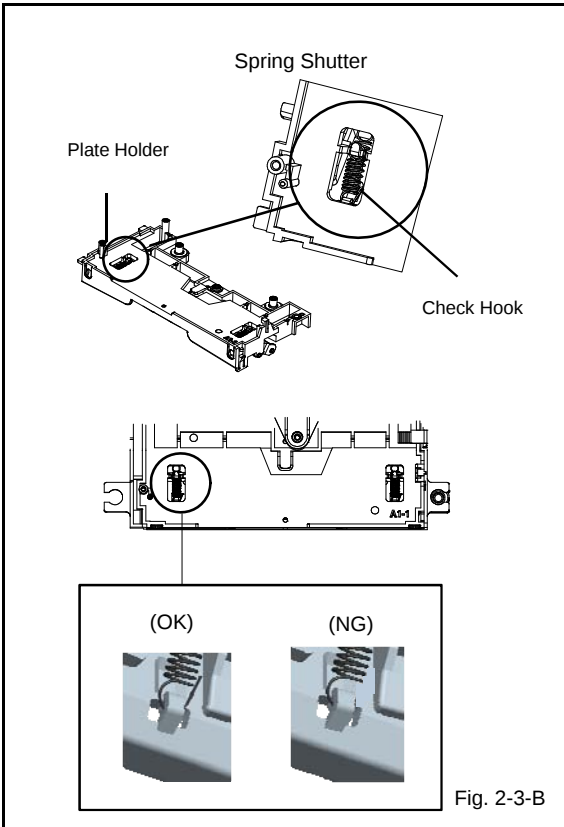
- Screw Torque: $3.0 \pm 0.3\text{kgf}\cdot\text{cm}$ (Screw (1))

Fig. 2-3-A

DISASSEMBLY INSTRUCTIONS

NOTE

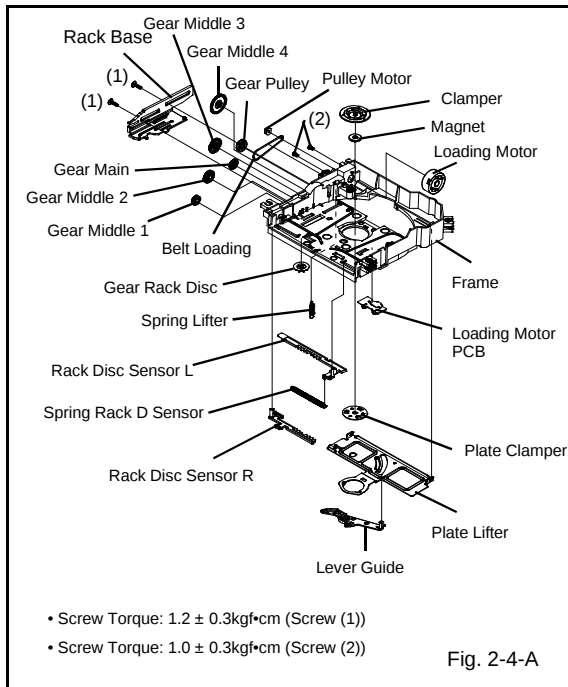
1. In case of the Shutter Roller Ass'y installation, check if the value of the Fig. 2-3-B is correct.
2. In case of the Roller Cone installation, install correctly as Fig. 2-3-C.
3. In case of the Lumirror Washer installation, install correctly as Fig. 2-3-D.
4. In case of the Gear Roller installation, check if the value of the Fig. 2-3-E is correct.



2.4: RACK BASE/GEAR MIDDLE4/BELT LOADING/GEAR PULLEY/GEAR MIDDLE3/GEAR MAIN/GEAR MIDDLE1/GEAR MIDDLE2/LOADING MOTOR/PULLEY MOTOR/CLAMPER/MAGNET/PLATE CLAMPER/SPRING LIFTER/PLATE LIFTER/LEVER GUIDE/LOADING MOTOR PCB/RACK DISC SENSOR R/RACK DISC SENSOR L/SPRING RACK D SENSOR/GEAR RACK DISC (Refer to Fig. 2-4-A)

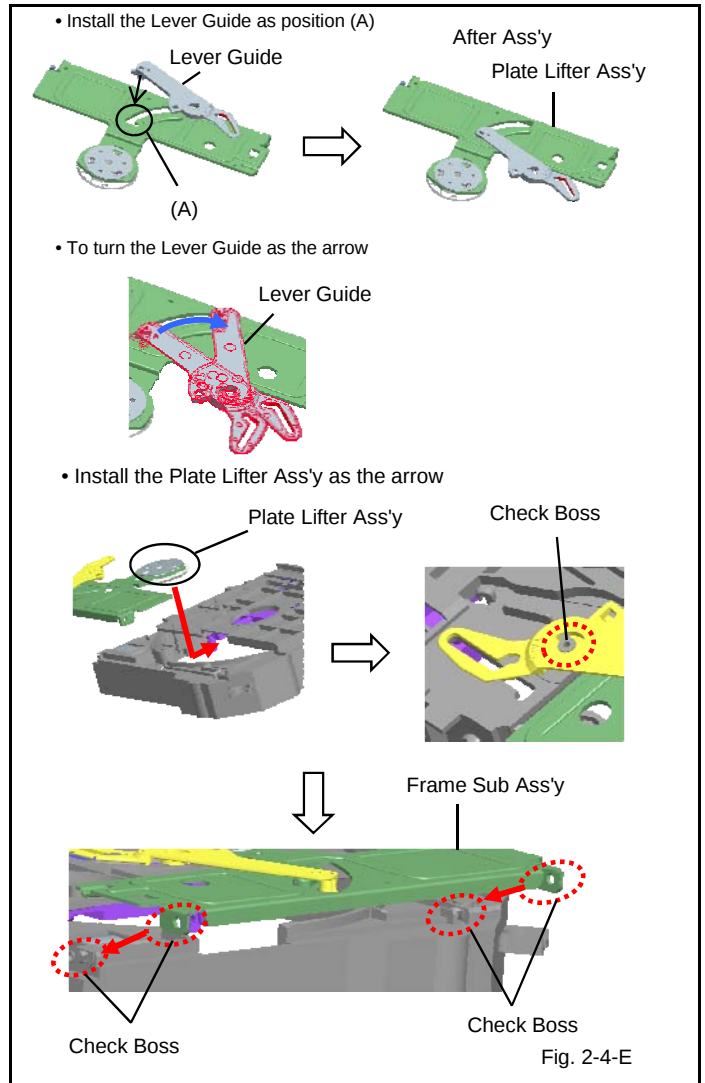
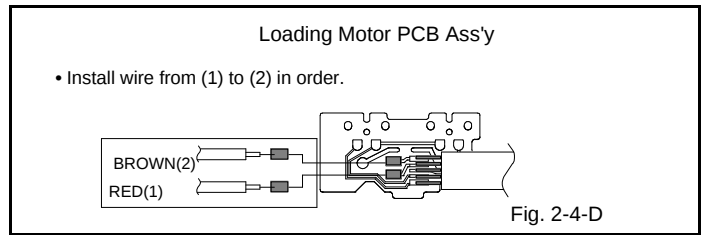
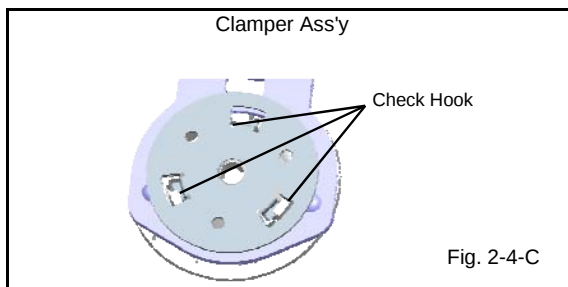
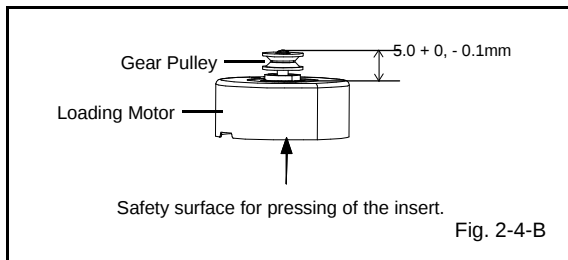
1. Remove the 2 screws (1).
2. Remove the Rack Base.
3. Remove the Gear Middle 4.
4. Remove the Belt Loading.
5. Remove the Gear Pulley.
6. Remove the Gear Middle 3.
7. Remove the Gear Main.
8. Remove the Gear Middle 1.
9. Remove the Gear Middle 2.
10. Remove the 2 screws (2).
11. Remove the Loading Motor.
12. Remove the Pulley Motor.
13. Remove the Clamper.
14. Remove the Magnet.
15. Remove the Plate Clamper.
16. Remove the Spring Lifter.
17. Remove the Plate Lifter.
18. Remove the Lever Guide.
19. Remove the Loading Motor PCB.
20. Remove the Rack Disc Sensor R.
21. Remove the Rack Disc Sensor L.
22. Remove the Spring Rack D Sensor.
23. Remove the Gear Rack Disc.

DISASSEMBLY INSTRUCTIONS



NOTE

1. In case of the Gear Pulley installation, check if the value of the Fig. 2-4-B is correct.
2. In case of the Clamper Ass'y installation, check if the value of the Fig. 2-4-C is correct.
3. When installing the wire of the Loading Motor PCB Ass'y, install it correctly as Fig. 2-4-D.
Manual soldering conditions
 - Soldering temperature: $350 \pm 5^\circ\text{C}$
 - Soldering time: Within 4 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
4. In case of the Plate Lifter Ass'y installation, install correctly as Fig. 2-4-E.
5. In case of the Rack Base installation, install correctly as Fig. 2-4-F.



DISASSEMBLY INSTRUCTIONS

- Install the Rack Base as the arrow (1)
- Install Boss of Rack Base as the arrow (2)

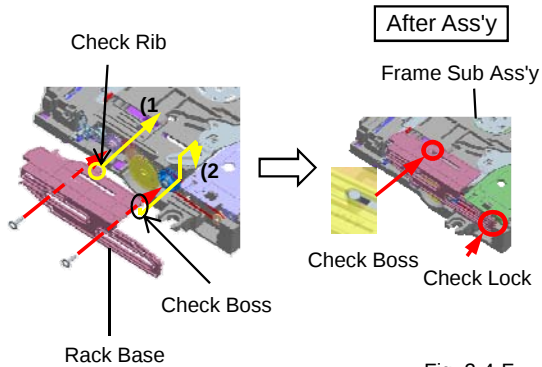


Fig. 2-4-F

2-5: FFC WIRE HANDLING

1. When installing the FFC, fold it correctly and install it as shown from Fig. 2-5-A to Fig. 2-5-C.

NOTE

1. Do not make the folding lines except the specified positions for the FFC.

[22 pin FFC]

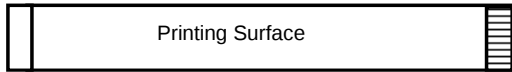


Fig. 2-5-A

[4 pin FFC]

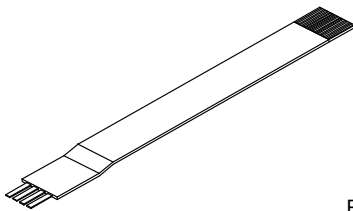


Fig. 2-5-B

[5 pin FFC]

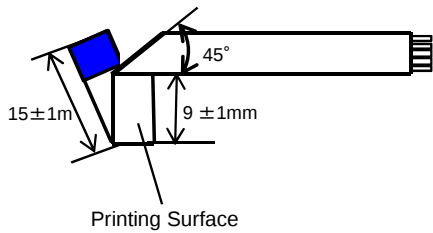


Fig. 2-5-C

DISASSEMBLY INSTRUCTIONS

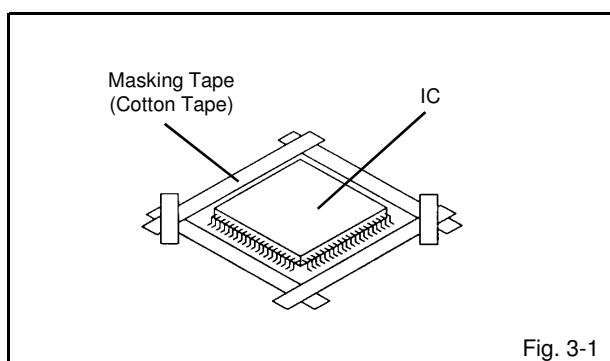
3. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

1. Put Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. (Refer to Fig. 3-1.)

NOTE

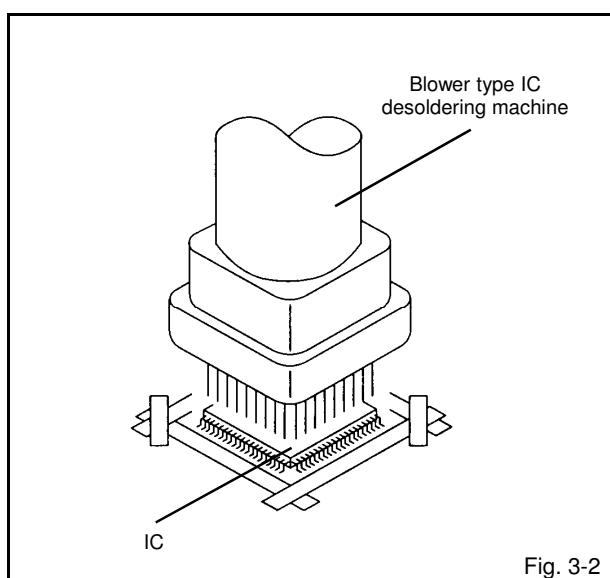
Masking is carried out on all the parts located within 10 mm distance from IC leads.



2. Heat the IC leads using a blower type IC desoldering machine. (Refer to Fig. 3-2.)

NOTE

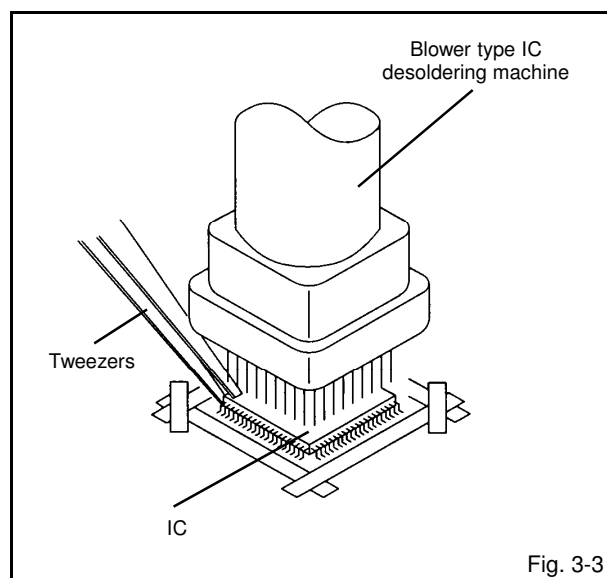
Do not rotate or move the IC back and forth, until IC can move back and forth easily after desoldering the leads completely.



3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using tweezers and remove the IC by moving with the IC desoldering machine. (Refer to Fig. 3-3.)

NOTE

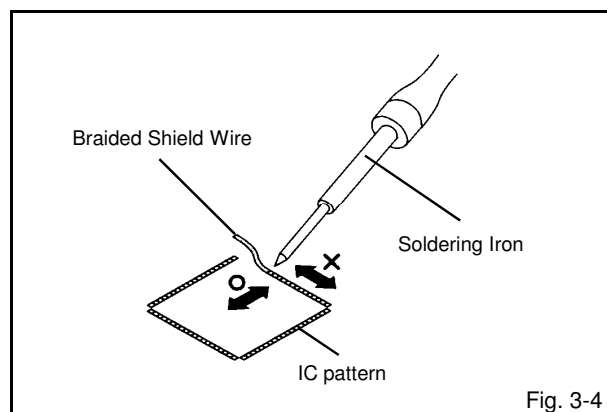
Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.



4. Peel off the Masking Tape.
5. Absorb the solder left on the pattern using the Braided Shield Wire. (Refer to Fig. 3-4.)

NOTE

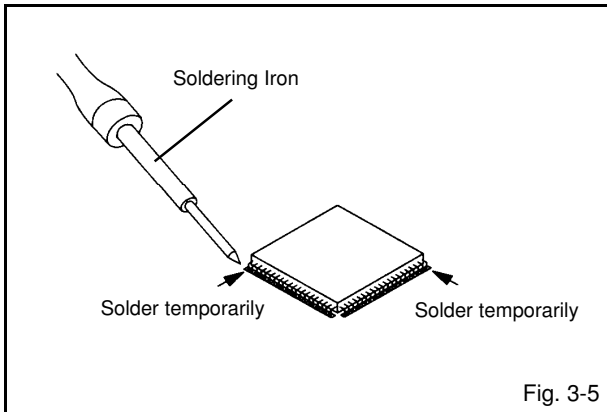
Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.



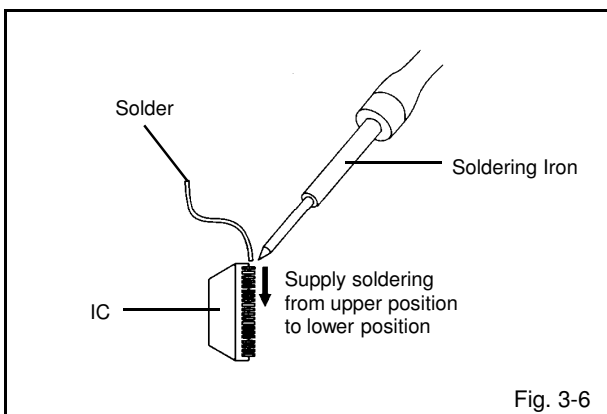
DISASSEMBLY INSTRUCTIONS

INSTALLATION

1. Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. (Refer to Fig. 3-5.)



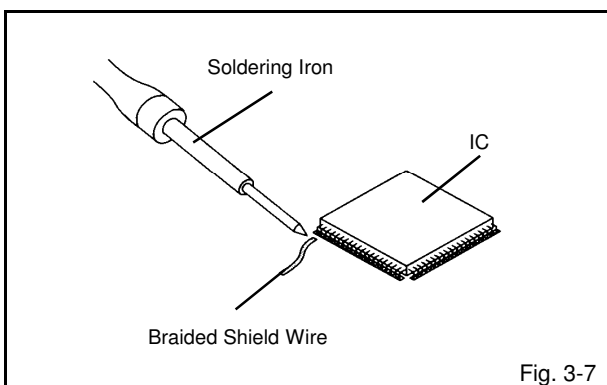
2. Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. (Refer to Fig. 3-6.)



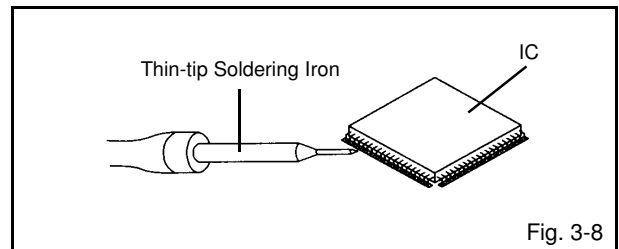
3. Absorb the solder left on the lead using the Braided Shield Wire. (Refer to Fig. 3-7.)

NOTE

Do not absorb the solder to excess.



4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Soldering Iron. (Refer to Fig. 3-8.)



5. Finally, confirm the soldering status on four sides of the IC using a magnifying glass. Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

NOTE

When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, always be sure to replace the IC in this case.

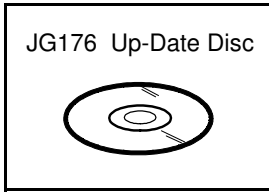
SERVICE MODE LIST

This unit is provided with the following SERVICE MODES so you can repair, examine and adjust easily.

To enter to the SERVICE MODE function, press and hold both buttons simultaneously on the main unit and on the remote control for more than a the standard time in the appropriate condition. (See below chart.)

Set Condition	Set Key	Remocon Key	Standard Time	Operations
TV mode	VOL. DOWN (Minimum)	0	2 sec.	Releasing of V-CHIP PASSWORD.
TV mode	VOL. DOWN (Minimum)	1	2 sec.	Initialization of factory TV data. NOTE: If you set factory initialization, the memories are reset such as the channel setting, and the POWER ON total hours.
DVD mode (No disc)	VOL. DOWN (Minimum)	4	2 sec.	Initialization of factory DVD data.
ALL mode	VOL. DOWN (Minimum)	6	2 sec.	POWER ON total hours are displayed on the screen. Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
TV mode	VOL. DOWN (Minimum)	8	2 sec.	Check of the SUM DATA and MICON VERSION on the screen. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
ALL mode	VOL. DOWN (Minimum)	9	2 sec.	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).
DVD mode (No disc)	STOP	1	2 sec.	Check of the firmware version. Refer to the "RE-WRITE FOR DVD FIRMWARE". NOTE: Do not use this for normal servicing.
DVD mode (No disc)	STOP	7	2 sec.	Releasing of PARENTAL LOCK. Refer to the "PARENTAL CONTROL - RATING LEVEL".
POWER ON	VOL. DOWN (Minimum)	SETUP/TV MENU	2 sec.	Releasing of HOTEL MODE FUNCTION Refer to the "HOTEL MODE FUNCTION".

SERVICING FIXTURES AND TOOLS



Ref. No.	Part No.	Parts Name	Parts Name
JG176	APJG176161	Up-Date Disc	Up-Date of the Firmware

RE-WRITE FOR DVD FIRMWARE

1. Turn on the power, and set the DVD mode.
2. Confirm that the "No Disc" will be appeared on the screen.
3. Insert Up-date disc.
4. When disc is read normally, Update is started and "Upgrade file DETECTED" "File Copying" is displayed.
After 5 seconds, displayed words is changed to "Do not power off", "UPGRADING" (Black Screen) (Refer to Fig. 1) , then update disc is ejected.

NOTE: After this, please never turn off AC. If you turn off AC, update fails. When update fails, update by CD-R can not be carried out after it. Therefore please be careful enough

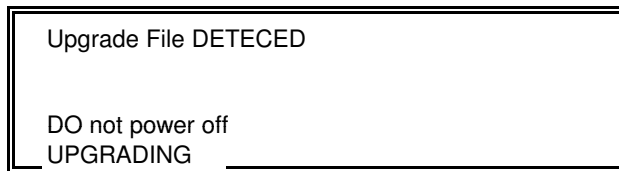


Fig. 1

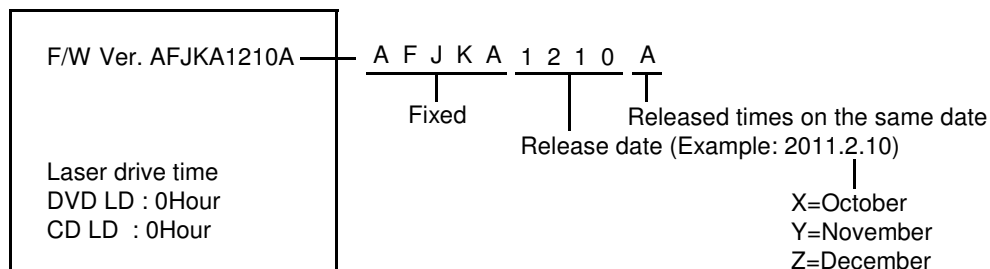
5. After the Up-Date, Logo screen will appear.
6. After update was finished, "Power OFF/ON reset" is carried out automatically
Then, Screen is changed to Logo screen.
7. Unplug the AC cord, then plug it in.

After the write, set to the initializing of shipping.

8. Turn on the power, and set the DVD mode.
9. Press both VOL. DOWN button on the set and Channel button (4) on the remote control for more than 2 seconds.
The "Factory Initial Complete" will appear on the screen.
11. Then unplug the AC cord, and plug it in.

CHECK FOR THE FIRMWARE VERSION

12. Turn on the power, and set the DVD mode.
13. Press both Channel button (1) on the remote control and the STOP button on the set for more than 2 seconds.
Firmware version will be displayed on the top left of the screen.



When the changed version displays, the Re-write will be completed.

14. Turn off the power

WHEN REPLACING EEPROM (MEMORY) IC

CONFIRMATION OF CHECK SUM, POWER ON TOTAL HOURS AND MICON VERSION

Initial total of MEMORY IC, POWER ON total hours and MICON VERSION can be checked on the screen. Total hours are displayed in 16 system of notation.

NOTE: If you set a factory initialization, the total hours is reset to "0".

Please refer to "CONFIRMATION OF INITIAL DATA" when SUM DATA is not corresponding.

1. Turn on the POWER, and set to the ALL mode.
2. Set the VOLUME to minimum.
3. Press both VOL. DOWN button on the set and Channel button **(8)** on the remote control for more than 2 seconds.
4. After the confirmation of each check sum, turn off the power.

NOTE: The each item value might be different according to each set.

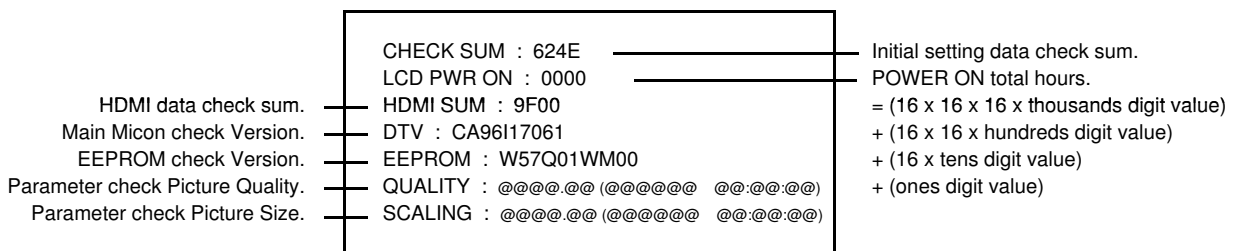


FIG. 1

CONFIRMATION OF INITIAL DATA

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to INITIAL SETTING TABLE (Attached "INITIAL DATA").

1. Turn on the POWER, and set to the ALL mode.
2. Set the VOLUME to minimum.
3. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 2 seconds.
ADDRESS and DATA should appear as FIG 2.

NOTE: No need to set data other position than 0200~0F79.

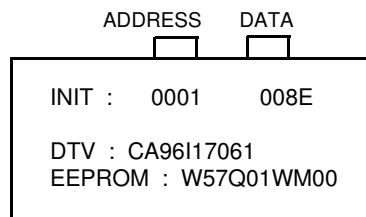


FIG. 2

4. ADDRESS is now selected and should "blink". Using the UP/DOWN button on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
5. Press LEFT/RIGHT button to select DATA. When DATA is selected, it will "blink".
6. Again, step through the DATA using UP/DOWN button until required DATA value has been selected.
7. Pressing LEFT/RIGHT button will take you back to ADDRESS for further selection if necessary.
8. Repeat steps 4 to 6 until all data has been checked.
9. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.

After the data input, set to the initializing of shipping.

10. Turn on the Power.
11. Set the VOLUME to minimum.
12. Press both VOL. DOWN button on the set and Channel button **(1)** on the remote control for more than 2 seconds.
13. After the finishing of the initializing of shipping, the unit will turn off automatically.
The unit will now have the correct DATA for the new MEMORY IC.

ELECTRICAL ADJUSTMENTS

1. ADJUSTMENT PROCEDURE

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

CAUTION

- Use an isolation transformer when performing any service on this chassis.
- When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.
- When you exchange IC and Transistor with a heat sink, apply silicon grease (**YG6260M**) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damages to the IC and Transistor).

Prepare the following measurement tools for electrical adjustments.

1. Pattern Generator

On-Screen Display Adjustment

1. Set the VOLUME to minimum.
2. Press the VOL. DOWN button on the set and the channel button (**9**) on the remote control for more than 2 seconds to display adjustment mode on the screen as shown in **Fig. 1-1**.

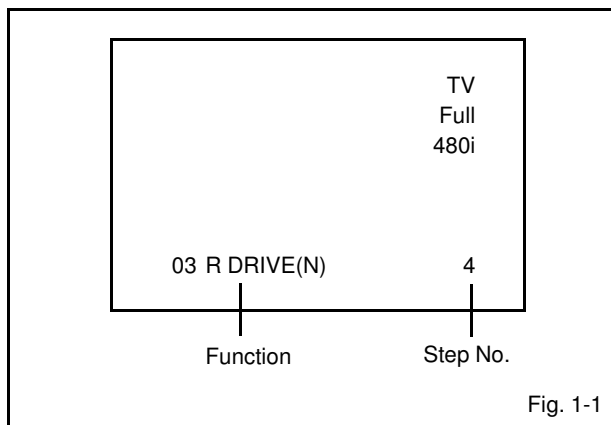


Fig. 1-1

3. Use the UP/DOWN button or Channel button (**0-9**) on the remote control to select the options shown in **Fig. 1-2**.
4. Press the SETUP/TV MENU button on the remote control to end the adjustments.
5. To display the adjustment screen for TV, AV, COMPONENT, HDMI, PC and DVD mode, press the INPUT SELECT button on the remote control.
6. Receive the DIGITAL broadcasting.
7. To display the adjustment screen for DTV mode, select the digital channel.
8. Press the VOL.DOWN button on the set and the channel (**9**) on the remote control for more than 2 seconds.

NO. FUNCTION	NO. FUNCTION
03 R DRIVE (N)	35 TINT
04 R CUTOFF (N)	36 SHARP H1 MAX
05 G DRIVE (N)	37 SHARP H1 MIN
06 G CUTOFF (N)	38 SHARP H2 MAX
07 B DRIVE (N)	39 SHARP H2 MIN
08 B CUTOFF (N)	40 SHARP H3 MAX
09 R DRIVE (C)	41 SHARP H3 MIN
10 R CUTOFF (C)	42 SHARP H4 MAX
11 G DRIVE (C)	43 SHARP H4 MIN
12 G CUTOFF (C)	44 SHARP H5 MAX
13 B DRIVE (C)	45 SHARP H5 MIN
14 B CUTOFF (C)	46 SHARP V1 MAX
15 R DRIVE (W)	47 SHARP V1 MIN
16 R CUTOFF (W)	48 SHARP V2 MAX
17 G DRIVE (W)	49 SHARP V2 MIN
18 G CUTOFF (W)	50 CONTRAST CENTER
19 B DRIVE (W)	51 CONTRAST MAX
20 B CUTOFF (W)	52 CONTRAST MIN
29 BAK LIGHT CENT	53 COLOR CENTER
30 BAK LIGHT MAX	54 COLOR MAX
31 BAK LIGHT MIN	55 COLOR MIN
32 BRIGHTNESS CENT	58 CONTRAST 40
33 BRIGHTNESS MAX	
34 BRIGHTNESS MIN	

Fig. 1-2

2. BASIC ADJUSTMENTS

2-1: WHITE BALANCE

1. Place the set in Aging Test for more than 15 minutes.
2. Receive the gray scale pattern from the Pattern Generator.
3. Press the INPUT SELECT button on the remote control to set to the AV mode.
4. Using the remote control, set the brightness and contrast to normal position.
5. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**03**) on the remote control to select "R DRIVE (N)".
6. Press the UP/DOWN button on the remote control to select the "R CUTOFF (N)", "B DRIVE (N)", "B CUTOFF (N)", "R DRIVE (C)", "R CUTOFF (C)", "B DRIVE (C)", "B CUTOFF (C)", "R DRIVE (W)", "R CUTOFF (W)", "B DRIVE (W)" or "B CUTOFF (W)".
7. Adjust the LEFT/RIGHT button on the remote control to whiten the R DRIVE (N), R CUTOFF (N), B DRIVE (N), B CUTOFF (N), R DRIVE (C), R CUTOFF (C), B DRIVE (C), B CUTOFF (C), R DRIVE (W), R CUTOFF (W), B DRIVE (W) and B CUTOFF (W) at each step tone sections equally.
8. Perform the above adjustments 6 and 7 until the white color is achieved.

ELECTRICAL ADJUSTMENTS

2-2: BRIGHTNESS CENT

1. Place the set in Aging Test for more than 15 minutes.
2. Receive the color bar pattern. (RF Input)
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(32)** on the remote control to select "BRIGHTNESS CENT".
5. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "127".
6. Check if the picture is normal.
7. Receive the color bar pattern. (VIDEO Input)
8. Using the remote control, set the brightness and contrast to normal position.
9. Press the INPUT SELECT button on the remote control to set to the AV mode.
10. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(32)** on the remote control to select "BRIGHTNESS CENT".
11. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "132".
12. Check if the picture is normal.
13. Receive the color bar pattern. (COMPONENT Input)
14. Using the remote control, set the brightness and contrast to normal position.
15. Press the INPUT SELECT button on the remote control to set to the COMPONENT mode.
16. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(32)** on the remote control to select "BRIGHTNESS CENT".
17. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "132".
18. Check if the picture is normal.
19. Receive the color bar pattern. (HDMI Input)
20. Using the remote control, set the brightness and contrast to normal position.
21. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
22. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(32)** on the remote control to select "BRIGHTNESS CENT".
23. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "134".
24. Check if the picture is normal.
25. Playback the DVD(480i) disc.
Press the INPUT SELECT button on the remote control to set to the DVD mode.
26. Using the remote control, set the brightness and contrast to normal position.
27. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(32)** on the remote control to select "BRIGHTNESS CENT".
28. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "123".
29. Check if the picture is normal.

2-3: CONTRAST MAX

1. Place the set in Aging Test for more than 15 minutes.
2. Receive the color bar pattern. (RF Input)
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(51)** on the remote control to select "CONTRAST MAX".
5. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "147".
6. Check if the picture is normal.
7. Receive the color bar pattern. (VIDEO Input)
8. Using the remote control, set the brightness and contrast to normal position.
9. Press the INPUT SELECT button on the remote control to set to the AV mode.
10. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(51)** on the remote control to select "CONTRAST MAX".
11. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "129".
12. Check if the picture is normal.
13. Receive the color bar pattern. (COMPONENT Input)
14. Using the remote control, set the brightness and contrast to normal position.
15. Press the INPUT SELECT button on the remote control to set to the COMPONENT mode.
16. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(51)** on the remote control to select "CONTRAST MAX".
17. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "133".
18. Check if the picture is normal.
19. Playback the DVD(480i) disc. (HDMI Input)
20. Using the remote control, set the brightness and contrast to normal position.
21. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
22. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(51)** on the remote control to select "CONTRAST MAX".
23. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "136".
24. Check if the picture is normal.
25. Playback the DVD(480i) disc.
Press the INPUT SELECT button on the remote control to set to the DVD mode.
26. Using the remote control, set the brightness and contrast to normal position.
27. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(51)** on the remote control to select "CONTRAST MAX".
28. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "133".
29. Check if the picture is normal.

ELECTRICAL ADJUSTMENTS

2-4: CONTRAST CENTER

1. Place the set in Aging Test for more than 15 minutes.
2. Receive the color bar pattern. (RF Input)
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**50**) on the remote control to select "CONTRAST CENTER".
5. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "117".
6. Check if the picture is normal.
7. Receive the color bar pattern. (VIDEO Input)
8. Using the remote control, set the brightness and contrast to normal position.
9. Press the INPUT SELECT button on the remote control to set to the AV mode.
10. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**50**) on the remote control to select "CONTRAST CENTER".
11. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "101".
12. Check if the picture is normal.
13. Receive the color bar pattern. (COMPONENT Input)
14. Using the remote control, set the brightness and contrast to normal position.
15. Press the INPUT SELECT button on the remote control to set to the COMPONENT mode.
16. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**50**) on the remote control to select "CONTRAST CENTER".
17. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "104".
18. Check if the picture is normal.
19. Receive the color bar pattern. (HDMI Input)
20. Using the remote control, set the brightness and contrast to normal position.
21. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
22. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**50**) on the remote control to select "CONTRAST CENTER".
23. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "107".
24. Check if the picture is normal.
25. Playback the DVD(480i) disc.
Press the INPUT SELECT button on the remote control to set to the DVD mode.
26. Using the remote control, set the brightness and contrast to normal position.
27. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**50**) on the remote control to select "CONTRAST CENTER".
28. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "99".
29. Check if the picture is normal.

2-5: CONTRAST 40

1. Place the set in Aging Test for more than 15 minutes.
2. Receive the color bar pattern. (RF Input)
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**58**) on the remote control to select "CONTRAST 40".
5. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "143".
6. Check if the picture is normal.
7. Receive the color bar pattern. (VIDEO Input)
8. Using the remote control, set the brightness and contrast to normal position.
9. Press the INPUT SELECT button on the remote control to set to the AV mode.
10. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**58**) on the remote control to select "CONTRAST 40".
11. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "125".
12. Check if the picture is normal.
13. Receive the color bar pattern. (COMPONENT Input)
14. Using the remote control, set the brightness and contrast to normal position.
15. Press the INPUT SELECT button on the remote control to set to the COMPONENT mode.
16. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**58**) on the remote control to select "CONTRAST 40".
17. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "129".
18. Check if the picture is normal.
19. Receive the color bar pattern. (HDMI Input)
20. Using the remote control, set the brightness and contrast to normal position.
21. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
22. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**58**) on the remote control to select "CONTRAST 40".
23. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "132".
24. Check if the picture is normal.
25. Playback the DVD(480i) disc.
Press the INPUT SELECT button on the remote control to set to the DVD mode.
26. Using the remote control, set the brightness and contrast to normal position.
27. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**58**) on the remote control to select "CONTRAST 40".
28. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "128".
29. Check if the picture is normal.

ELECTRICAL ADJUSTMENTS

2-6: Confirmation of Fixed Value (Step No.)

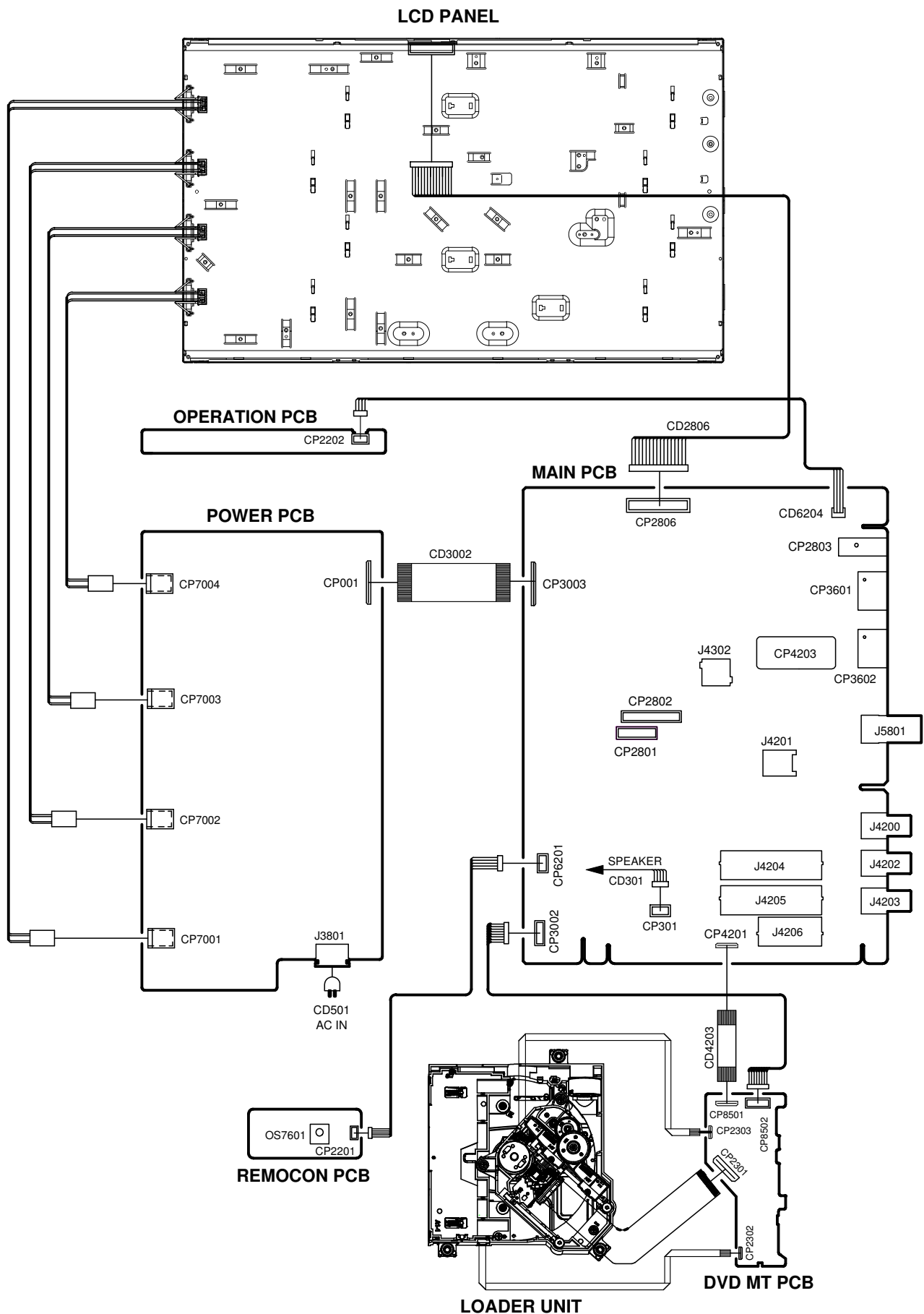
Please check if the fixed values of each of the adjustment item is set correctly referring below. (TV/AV/COMPONENT/HDMI/PC/DVD/DTV)

NO.	FUNCTION	TV	AV	COMPONENT				HDMI						DVI--->HDMI		PC								DVD	DTV				
		CVBS	480i	480p	720p	1080i	VGA	480i	480p	720p	1080i	1080p	VGA	XGA	640×480	720×400	800×600	1024×768	1280×768	1280×720	1360×768	480i	480p	720p	1080i	1080P			
		Step No.	Step No.	Step No.				Step No.						Step No.		Step No.								Step No.	Step No.				
03	R.DRIVE (N)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
04	R CUTOFF (N)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
05	G DRIVE (N)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
06	G CUTOFF (N)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
07	B DRIVE (N)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
08	B CUTOFF (N)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
09	R.DRIVE (C)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
10	R CUTOFF (C)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
11	G DRIVE (C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
12	G CUTOFF (C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
13	B DRIVE (C)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
14	B CUTOFF (C)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
15	R.DRIVE (W)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
16	R CUTOFF (W)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
17	G DRIVE (W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
18	G CUTOFF (W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
19	B DRIVE (W)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
20	B CUTOFF (W)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
29	BAK LIGHT CENT	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38			
30	BAK LIGHT MAX	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69			
31	BAK LIGHT MIN	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
32	BRIGHTNESS CENT	127	132	132	132	132	132	134	134	134	134	134	134	126	126	126	126	126	126	126	126	123	132	132	132	132	132		
33	BRIGHTNESS MAX	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200		
34	BRIGHTNESS MIN	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
35	TINT	45	41	41	41	41	41	41	41	41	41	41	41	50	50	50	50	50	50	50	50	50	43	43	43	43	43		
36	SHARP H1 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
37	SHARP H1 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
38	SHARP H2 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
39	SHARP H2 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
40	SHARP H3 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
41	SHARP H3 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
42	SHARP H4 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
43	SHARP H4 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
44	SHARP H5 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
45	SHARP H5 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
46	SHARP V1 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
47	SHARP V1 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
48	SHARP V2 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
49	SHARP V2 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
50	CONTRAST CENTER	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
51	CONTRAST MAX	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
52	CONTRAST MIN	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
53	COLOR CENTER	183	215	200	200	200	200	200	200	200	200	200	200	183	183	183	183	183	183	183	183	200	200	200	200	200	200		
54	COLOR MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
55	COLOR MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
58	CONTRAST 40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		

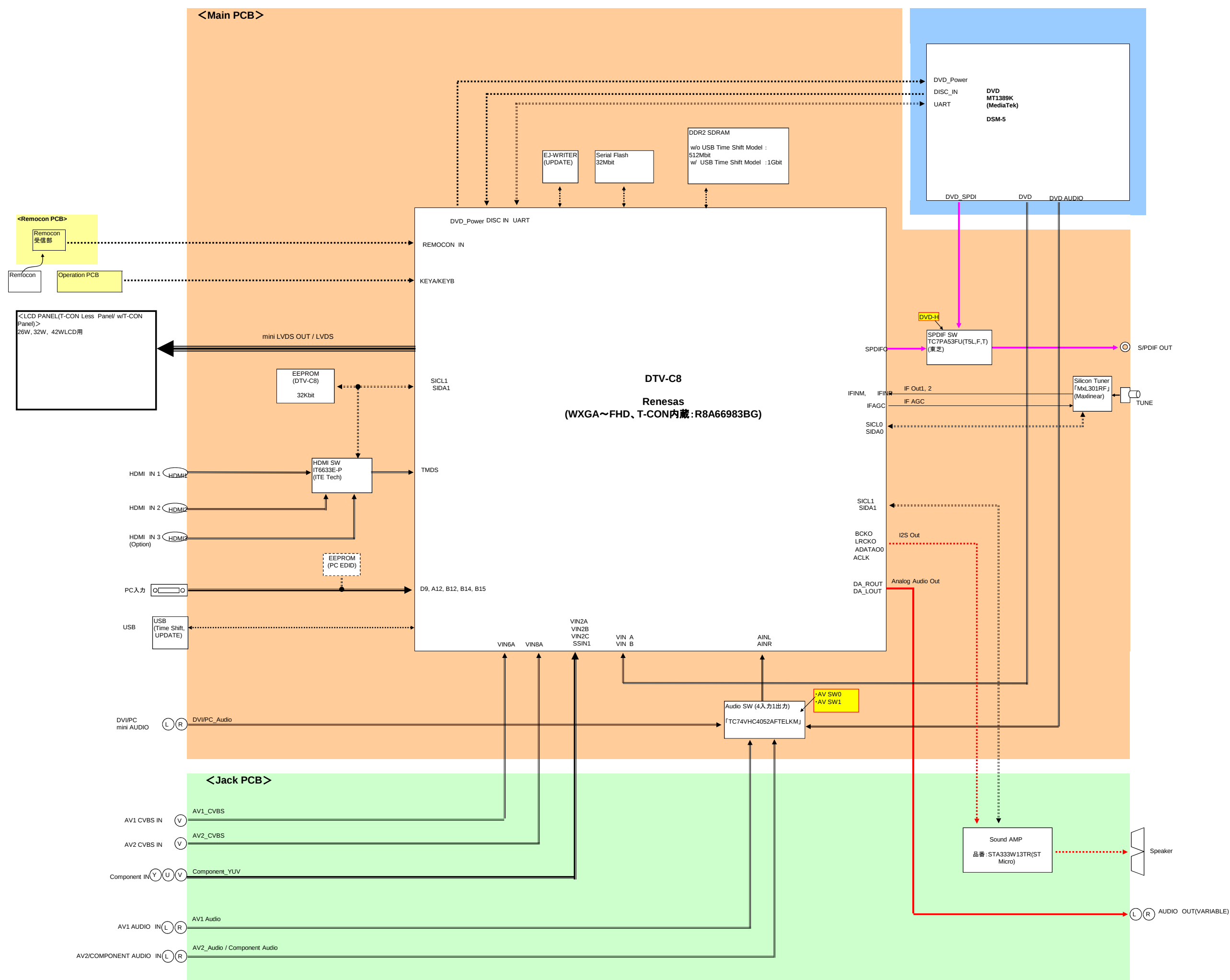
NOTE: For the step no. with * mark, please adjust it according to the situation of the set.

ELECTRICAL ADJUSTMENTS

3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)

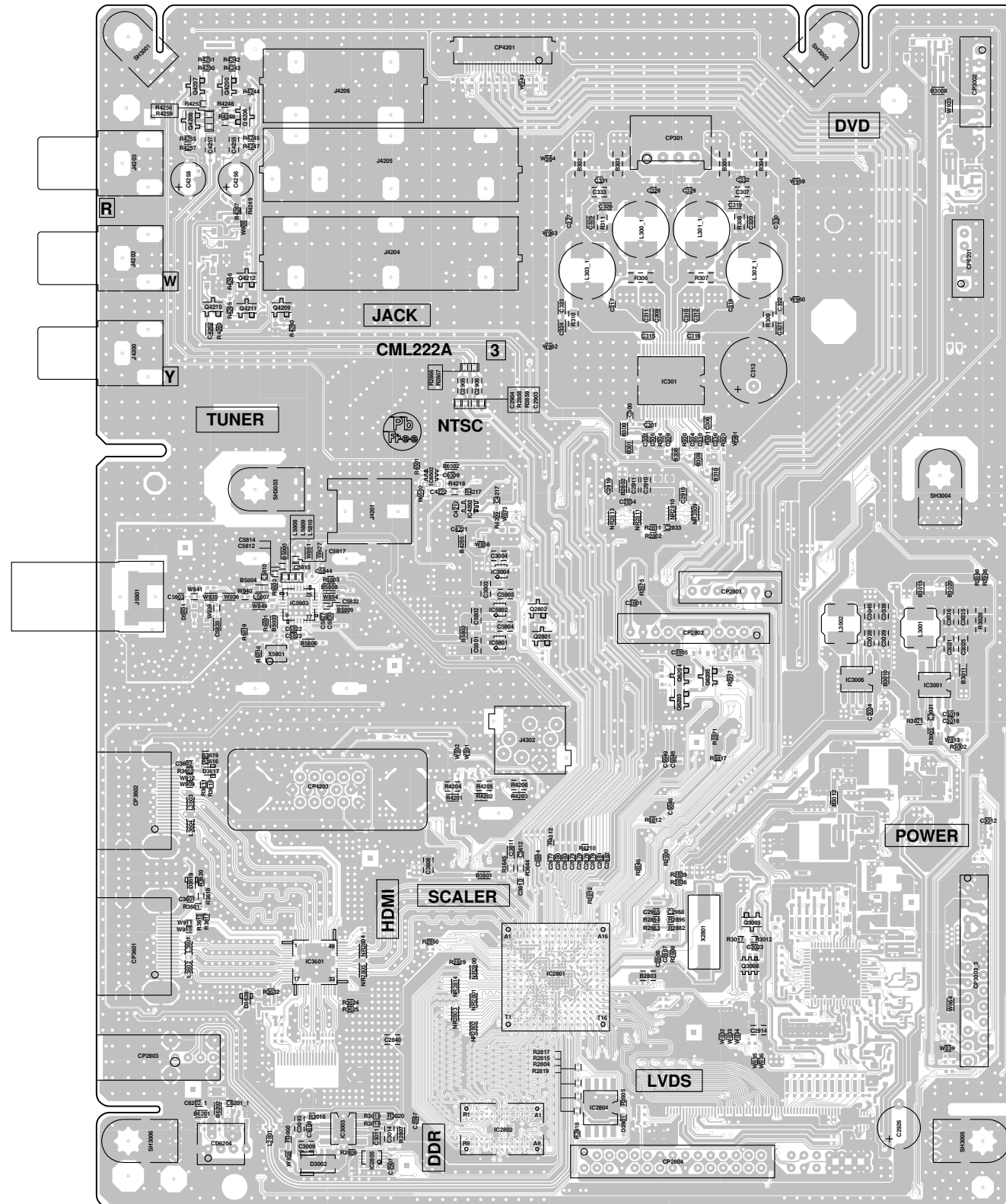


BLOCK DIAGRAM

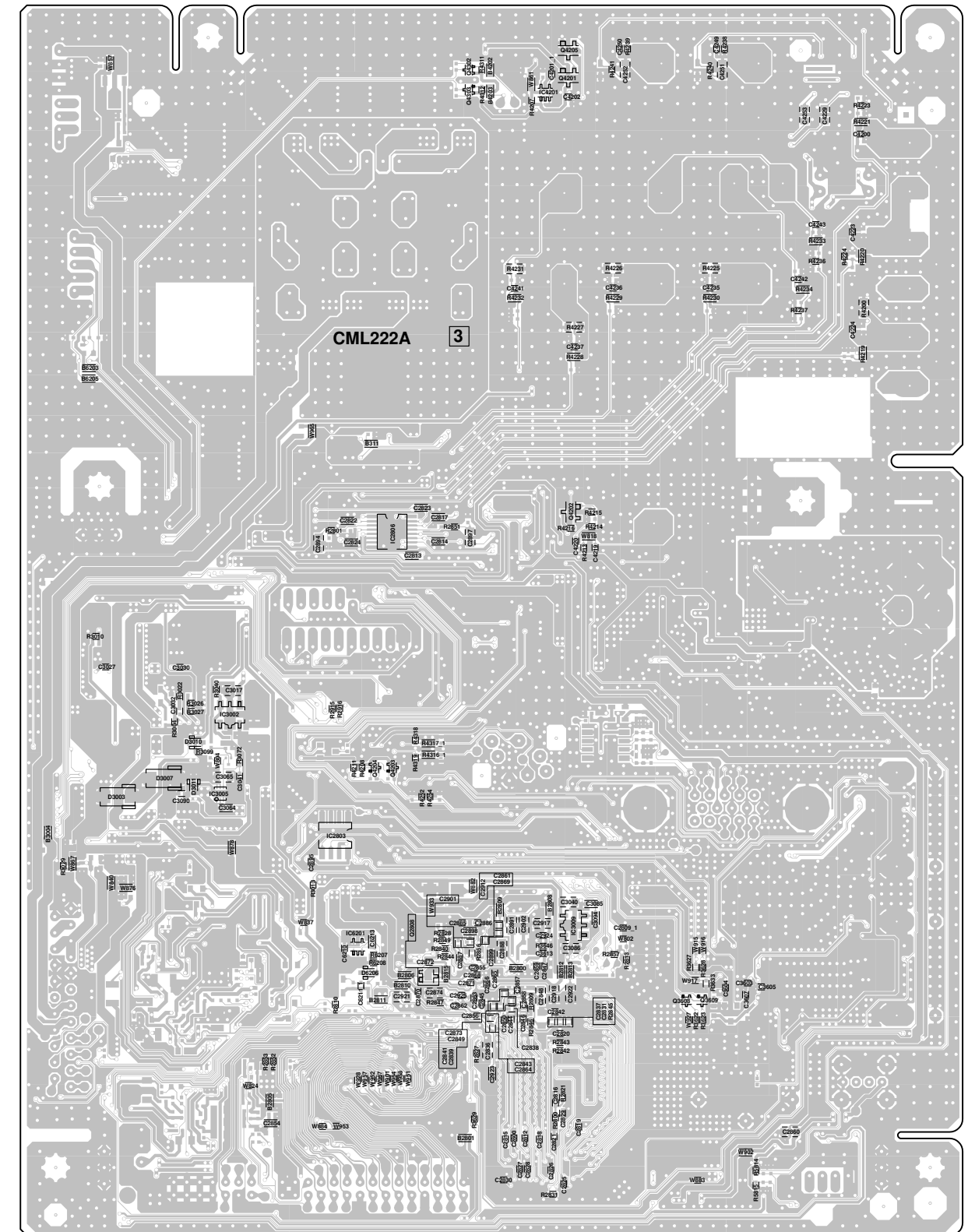


PRINTED CIRCUIT BOARDS

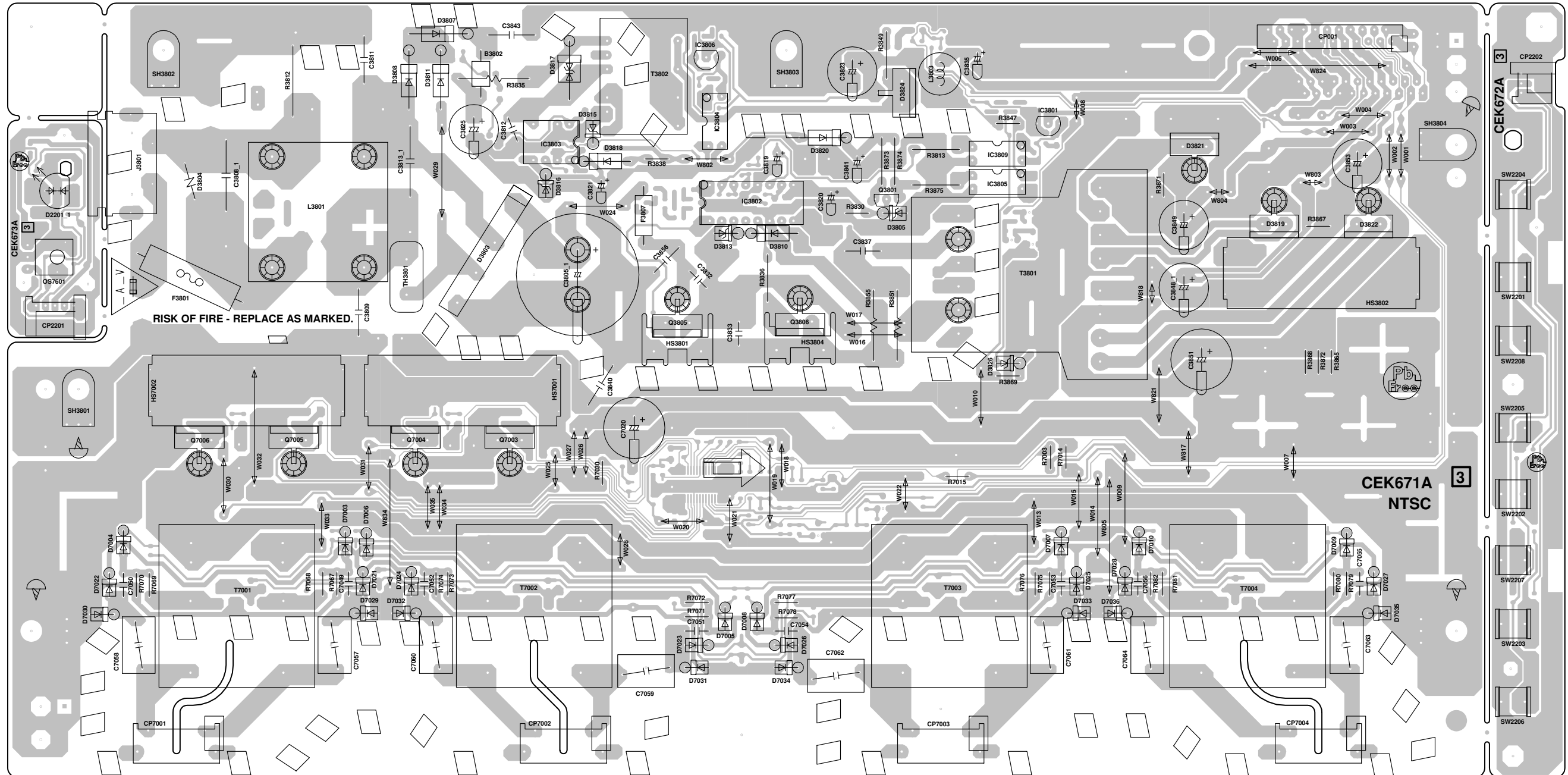
MAIN (TOP SIDE)



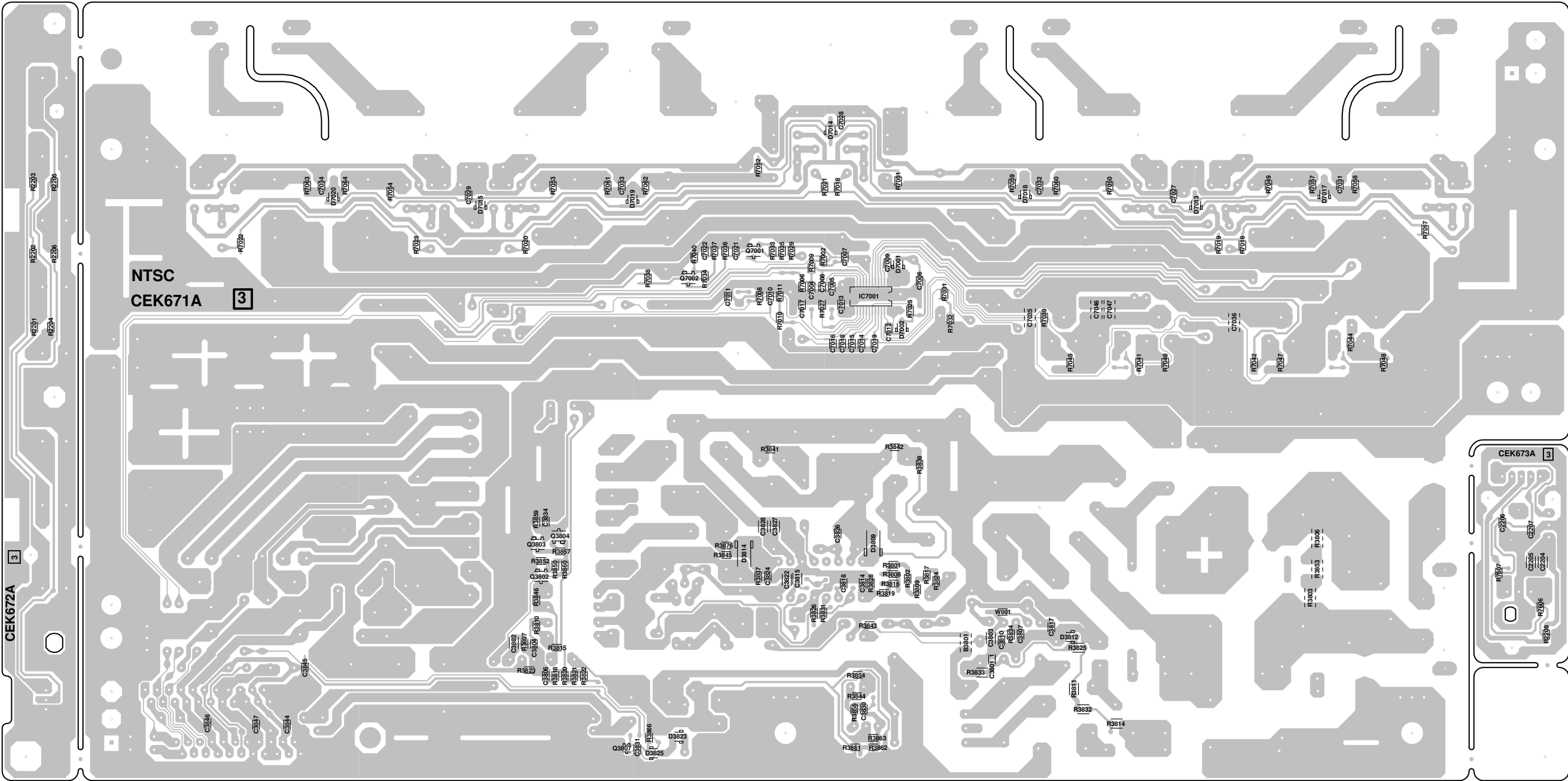
MAIN (BOTTOM SIDE)



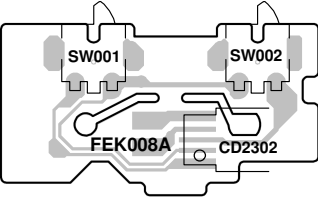
**PRINTED CIRCUIT BOARDS
POWER/REMOCON/OPERATION (INSERTED PARTS)
SOLDER SIDE**



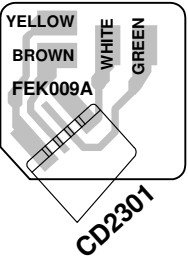
PRINTED CIRCUIT BOARDS
POWER/REMOCON/OPERATION (CHIP MOUNTED PARTS)
SOLDER SIDE



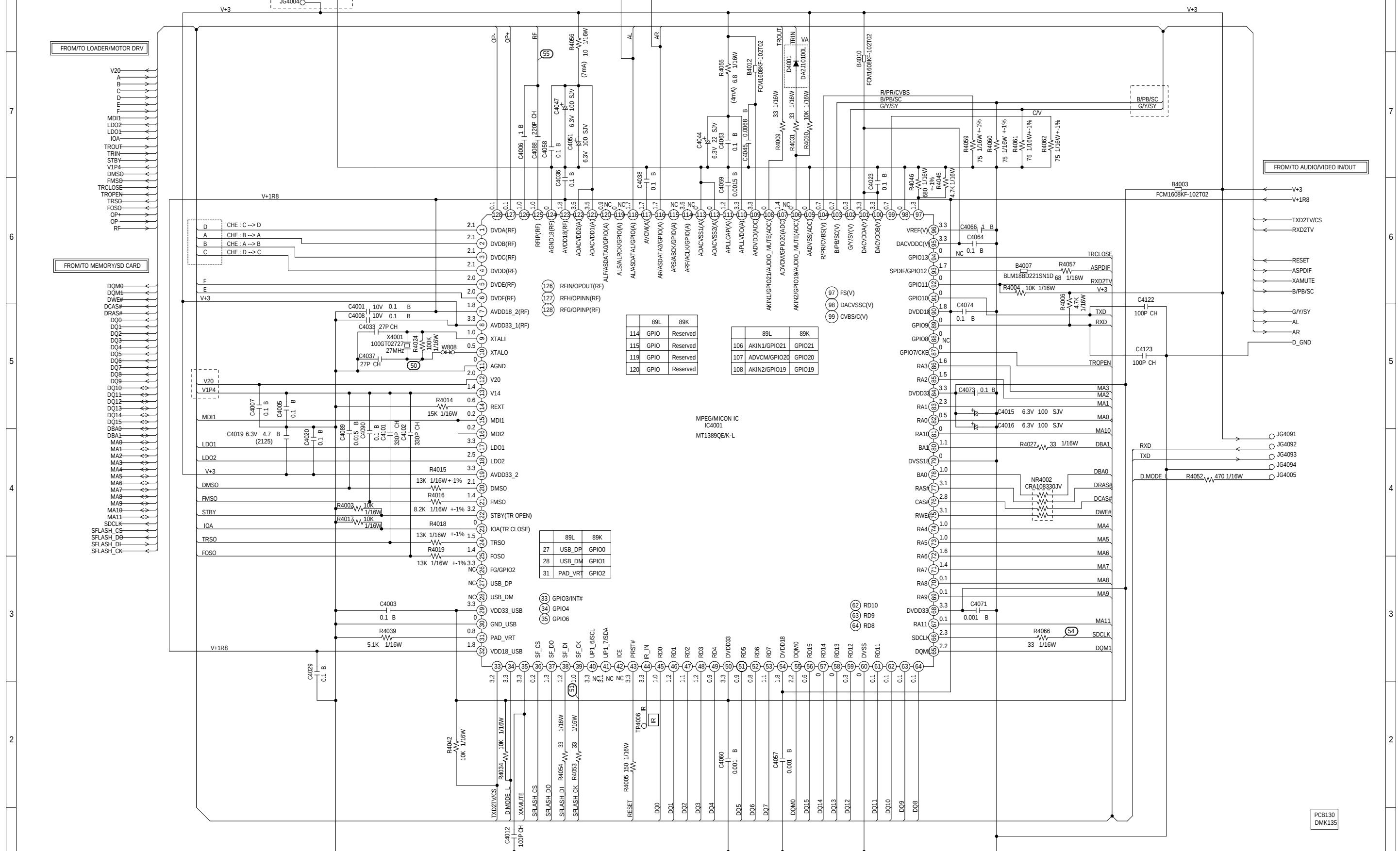
LOADING MOTOR (CHIP MOUNTED PARTS)
SOLDER SIDE



PCB (CHIP MOUNTED PARTS)
SOLDER SIDE



MPEG/MICON/DSP SCHEMATIC DIAGRAM (DVD MT PCB)

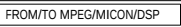


NOTE: THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

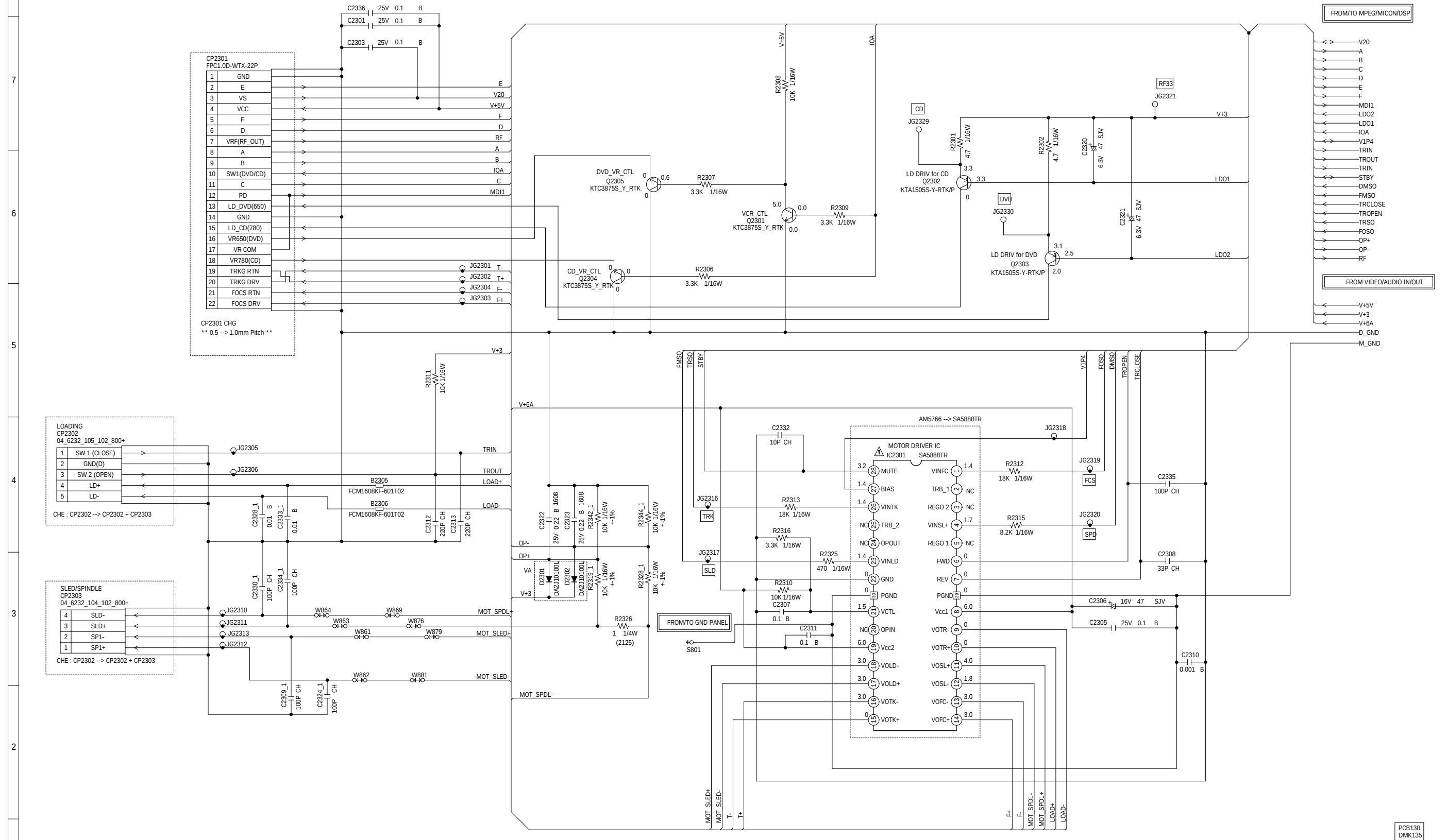
PCB130
DMK135

(DVD MT PCB)



NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

LOADER/MOTOR DRV SCHEMATIC DIAGRAM (DVD MT PCB)



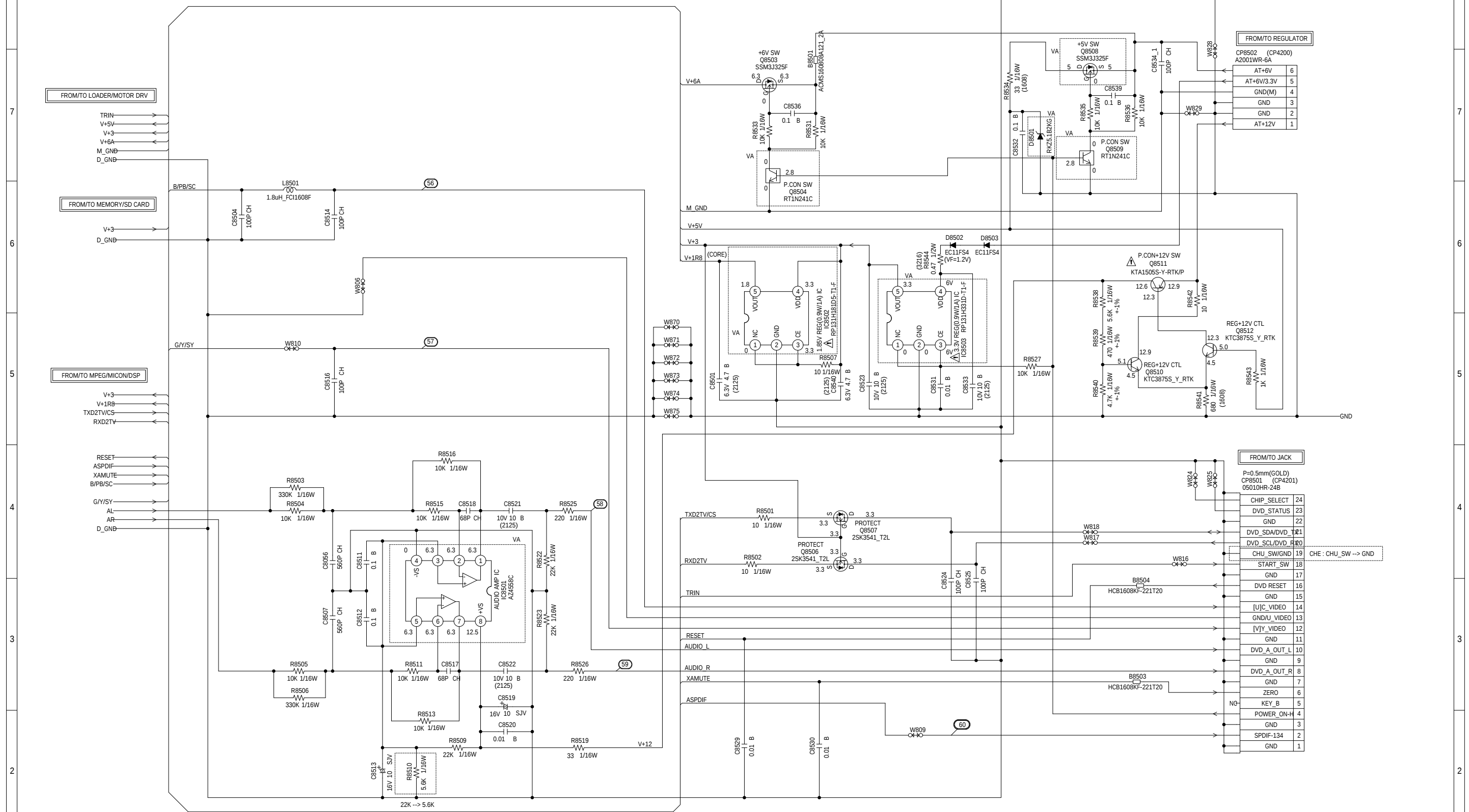
ATTENTION: LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION SINCE THESE PARTS MARKED BY  ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE:THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

VIDEO/AUDIO IN/OUT SCHEMATIC DIAGRAM
(DVD MT PCB)



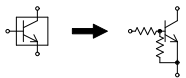
ATTENTION: LES PIECES REPARÉES PAR UN ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

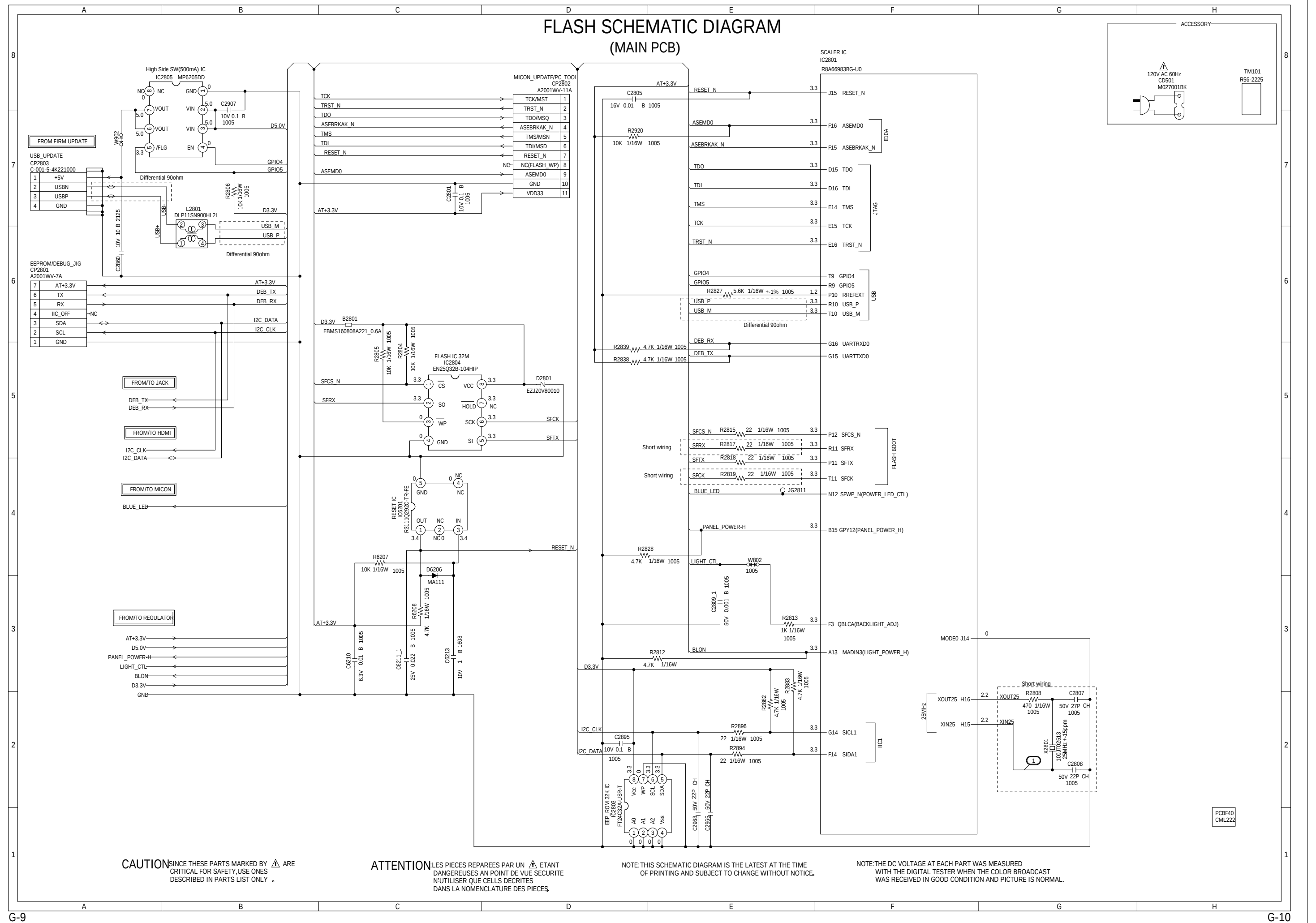
NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

CAUTION: DIGITAL TRANSISTOR

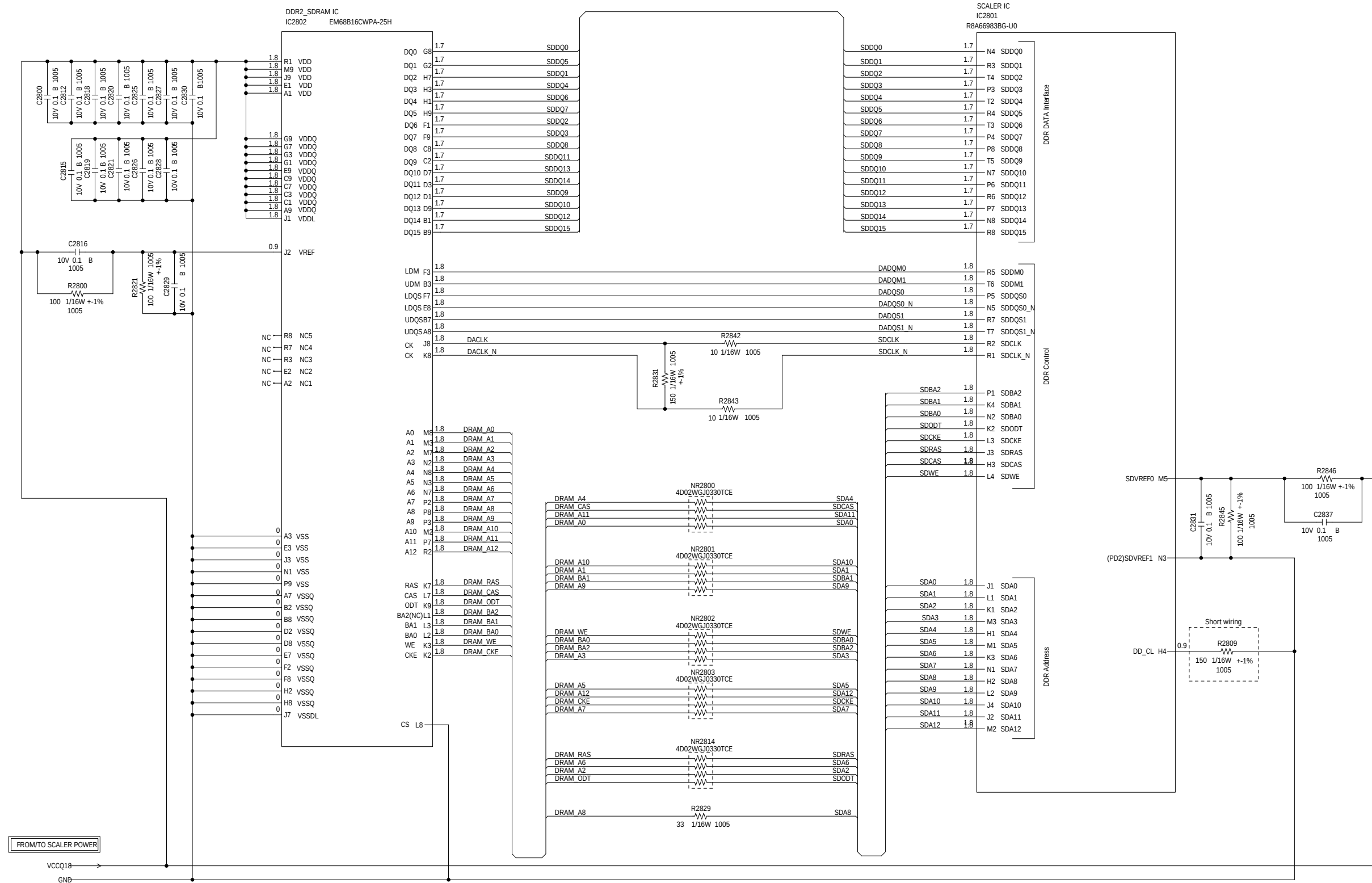


PCB130
DMK135

(MAIN PCB)



DDR2 SCHEMATIC DIAGRAM (MAIN PCB)

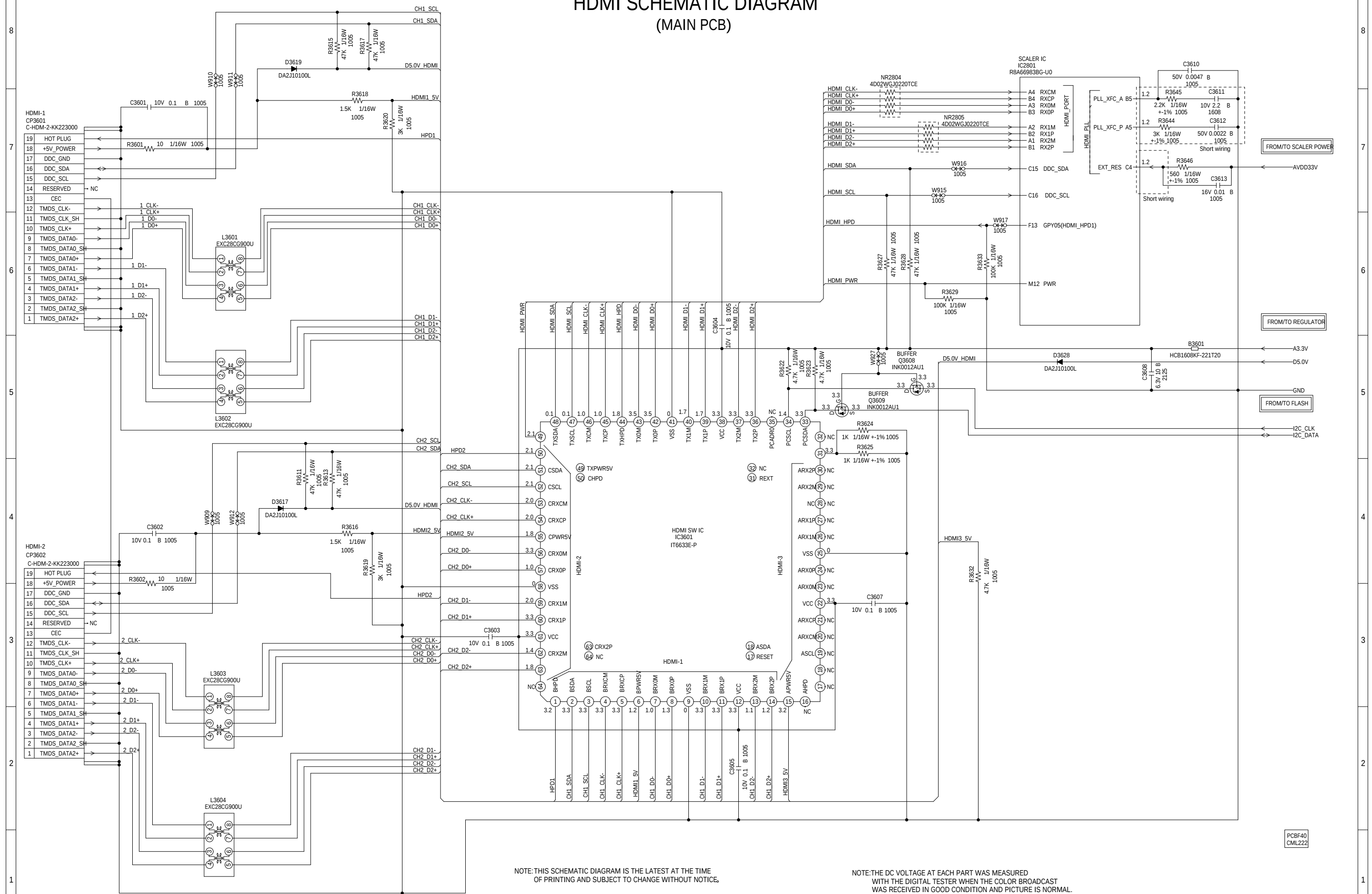


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBF40
CML222

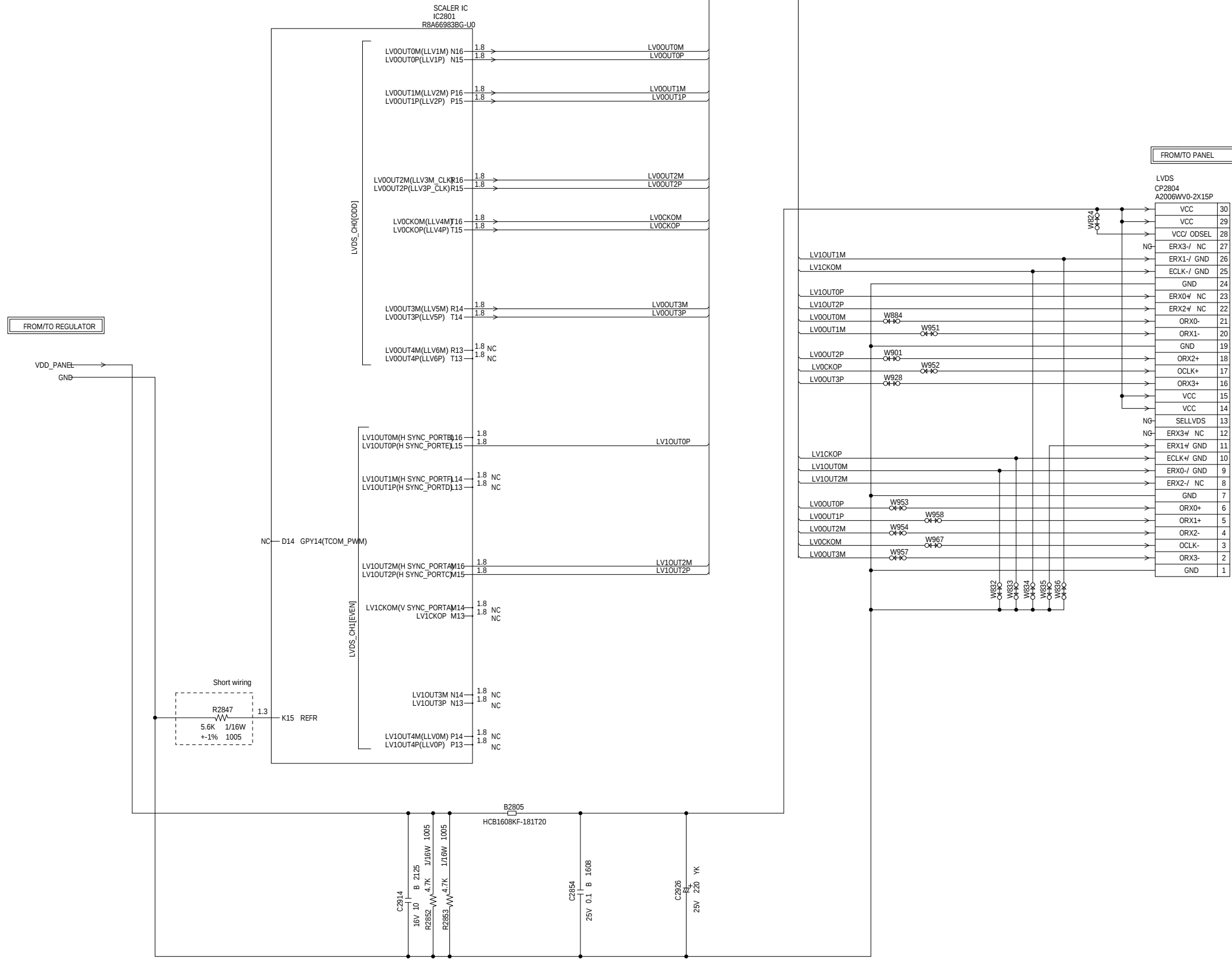
HDMI SCHEMATIC DIAGRAM (MAIN PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

LVDS SCHEMATIC DIAGRAM
(MAIN PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

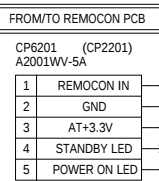
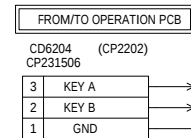
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION: LES PIÈCES RÉPARÉES PAR UN ÉTANT DANGEREUSES À UN POINT DE VUE SÉCURITÉ, N'UTILISER QUE DES CELLULES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

PCBF40
CML222

MICON SCHEMATIC DIAGRAM
(MAIN PCB)



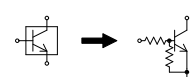
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: DIGITAL TRANSISTOR

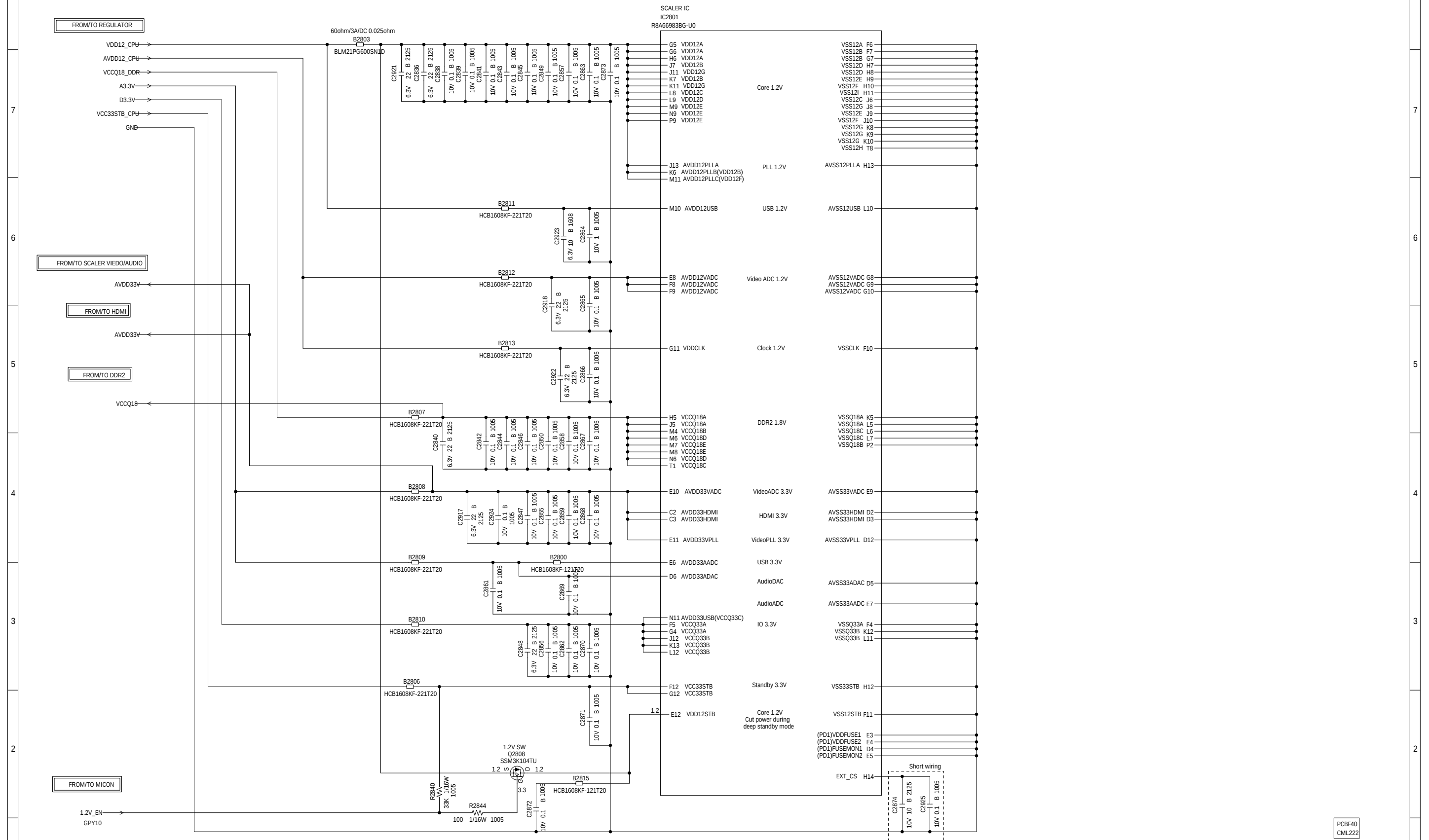


CAUTION: DIGITAL TRANSISTOR



PCBF40
CML222

SCALER POWER SCHEMATIC DIAGRAM (MAIN PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

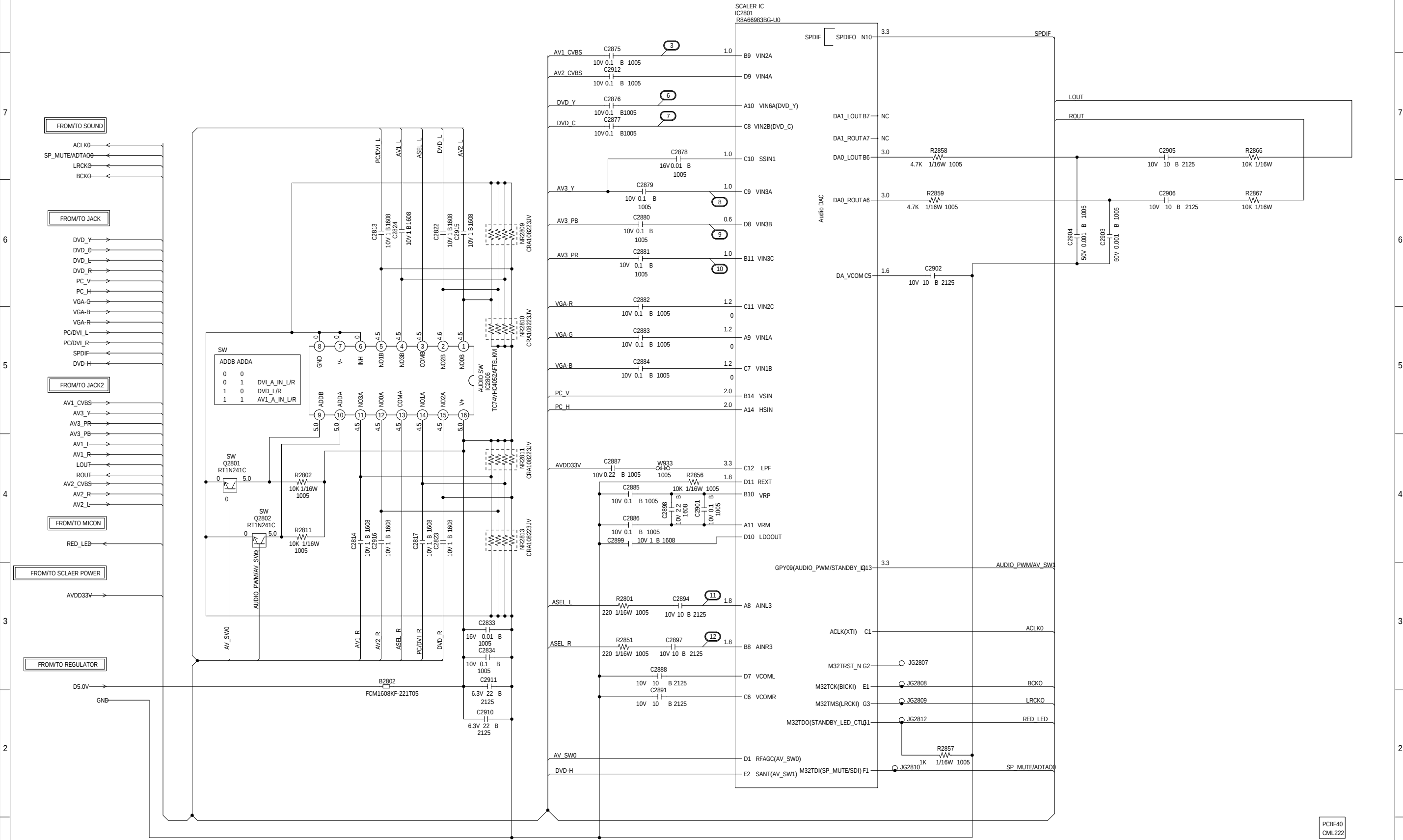
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL

(MAIN PCB)



ATTENTION: LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

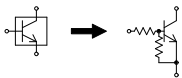
SCALER VIDEO/AUDIO SCHEMATIC DIAGRAM
(MAIN PCB)



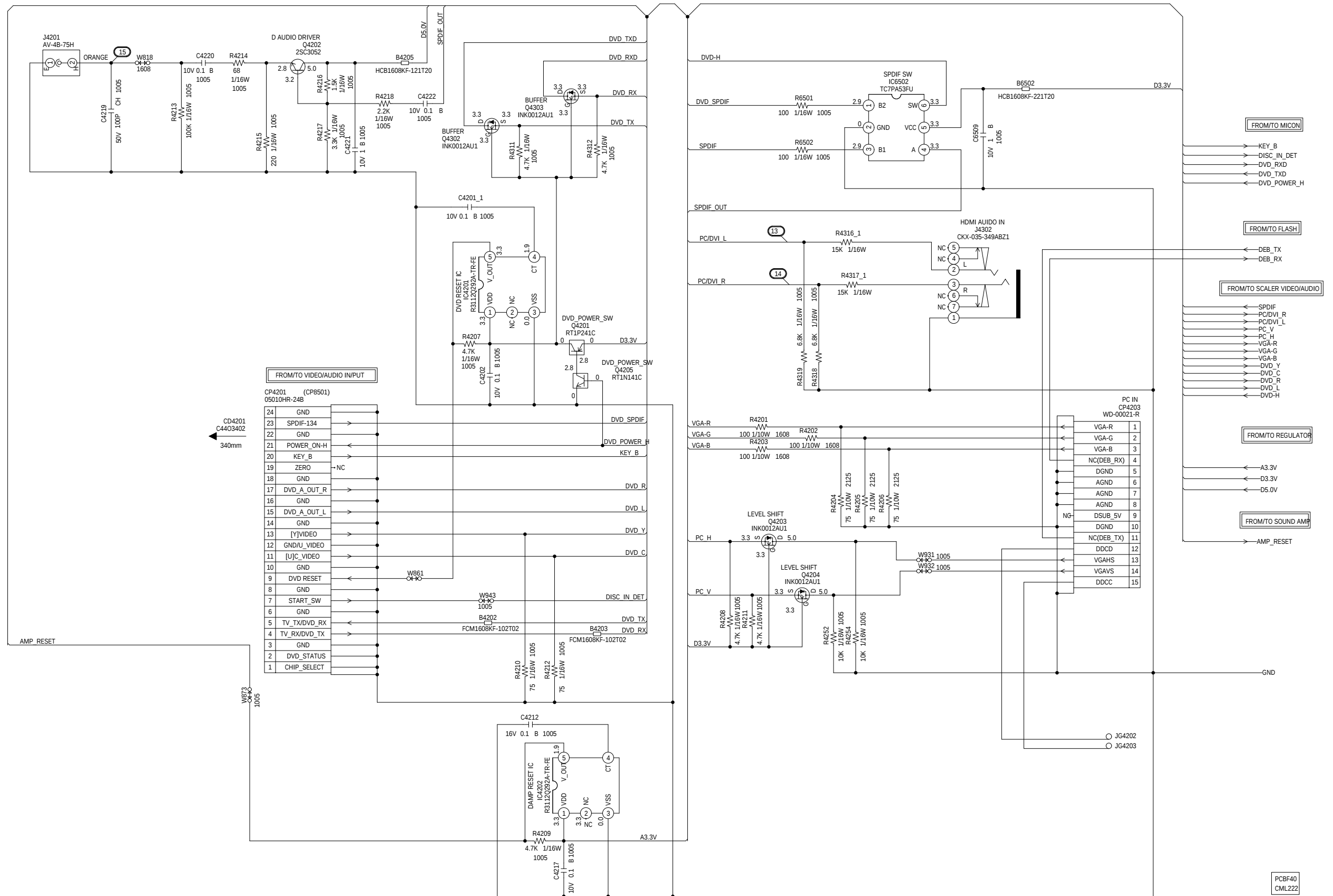
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: DIGITAL TRANSISTOR



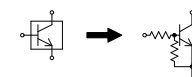
JACK SCHEMATIC DIAGRAM (MAIN PCB)



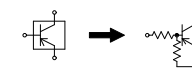
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

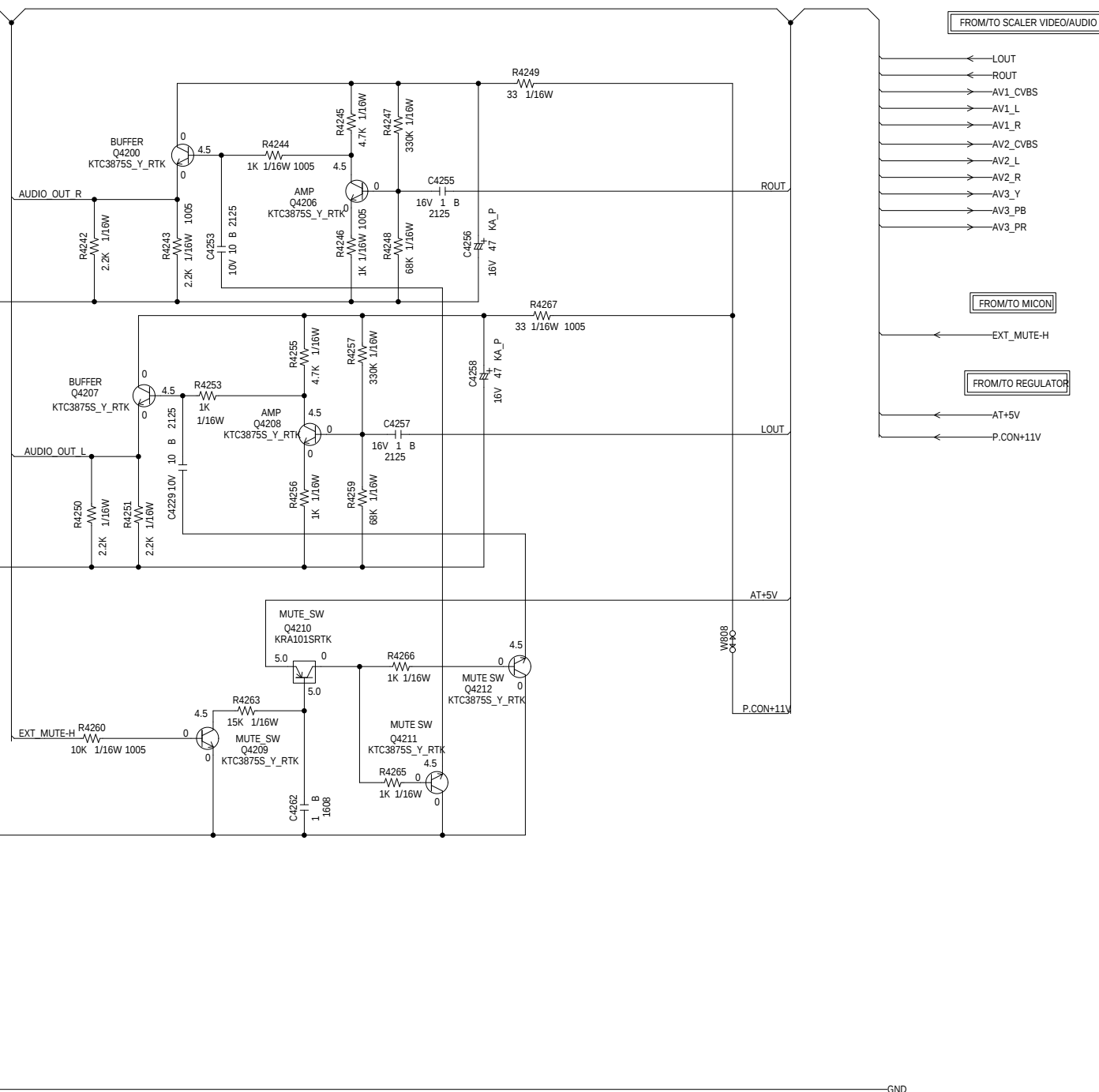
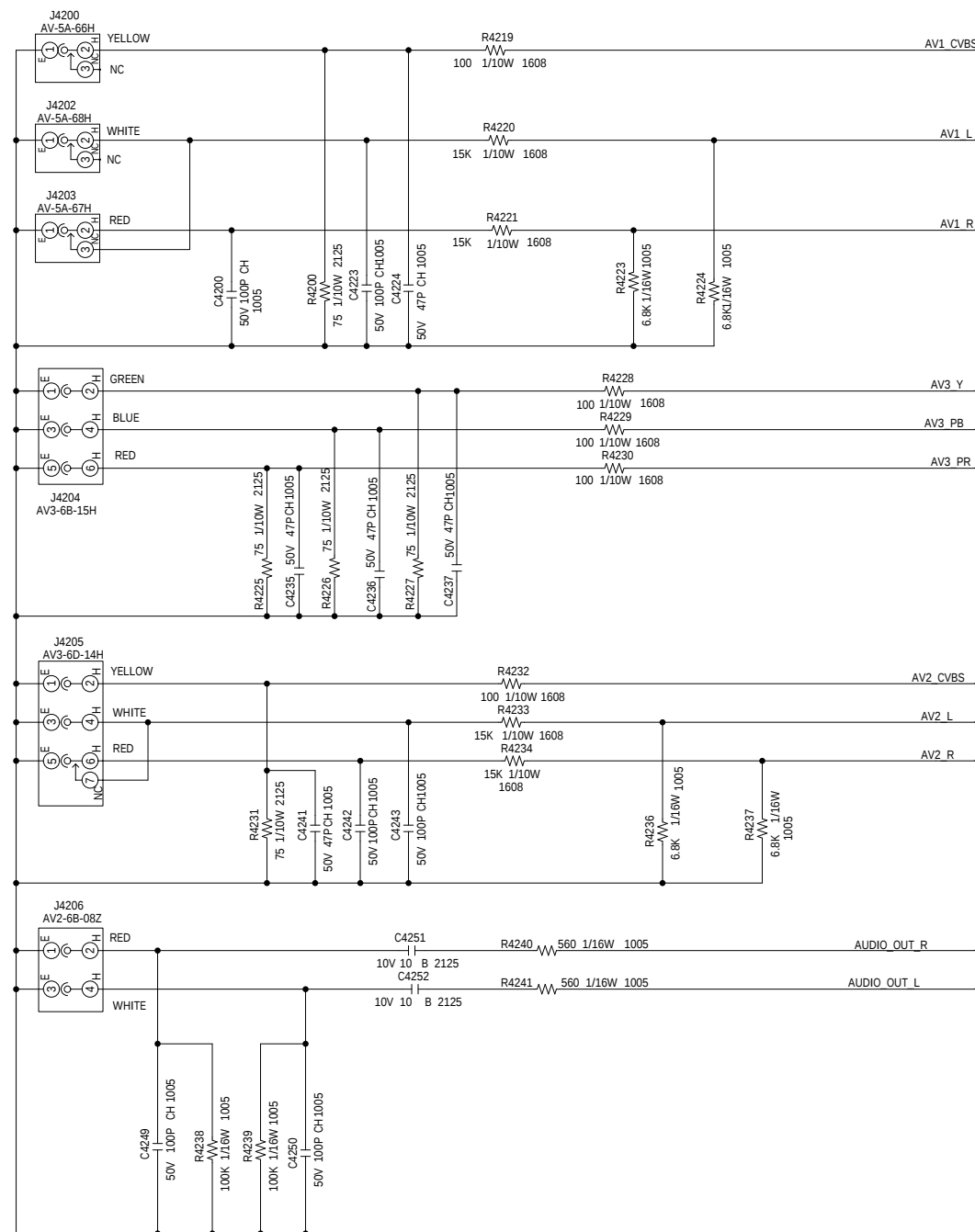
CAUTION: DIGITAL TRANSISTOR



CAUTION: DIGITAL TRANSISTOR



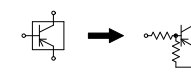
JACK2 SCHEMATIC DIAGRAM (MAIN PCB)



NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

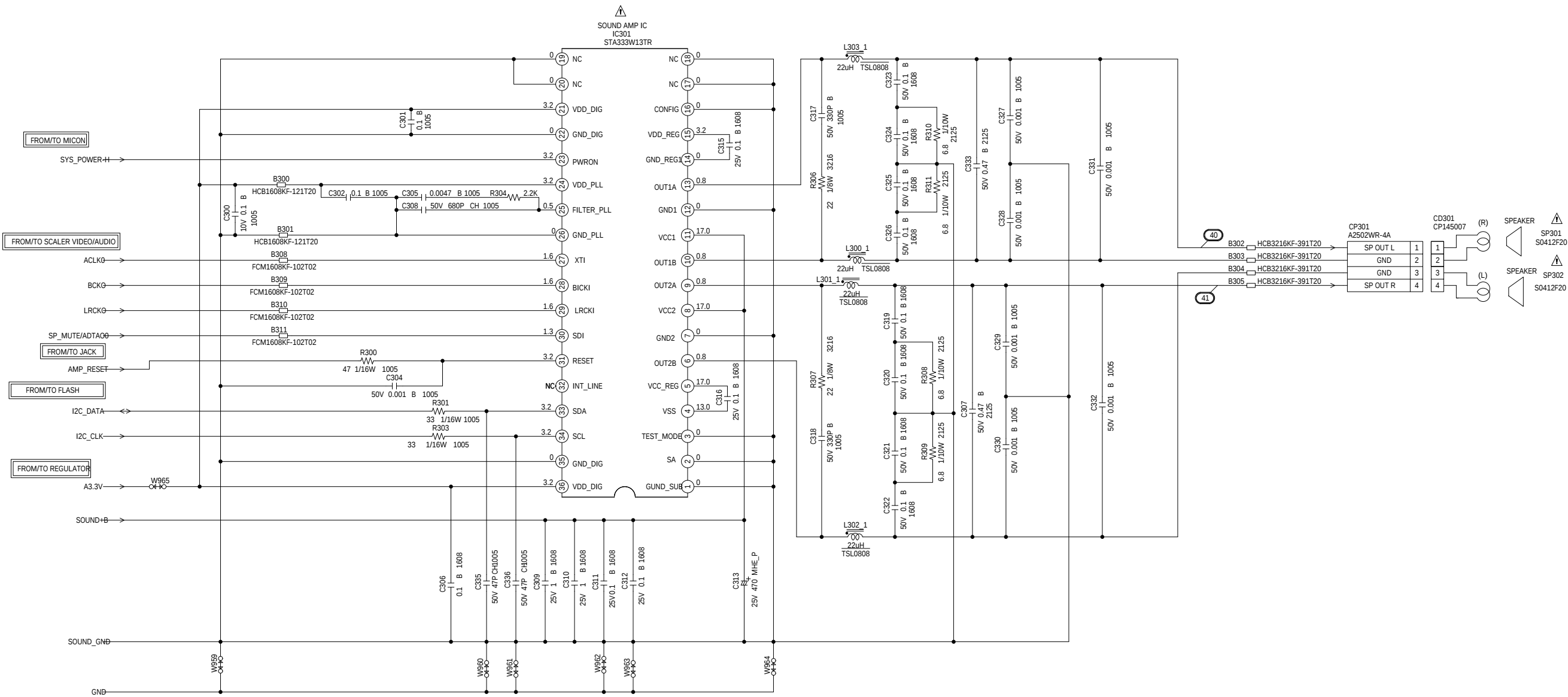
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

CAUTION: DIGITAL TRANSISTOR



PCBF40
CML222

SOUND SCHEMATIC DIAGRAM
(MAIN PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

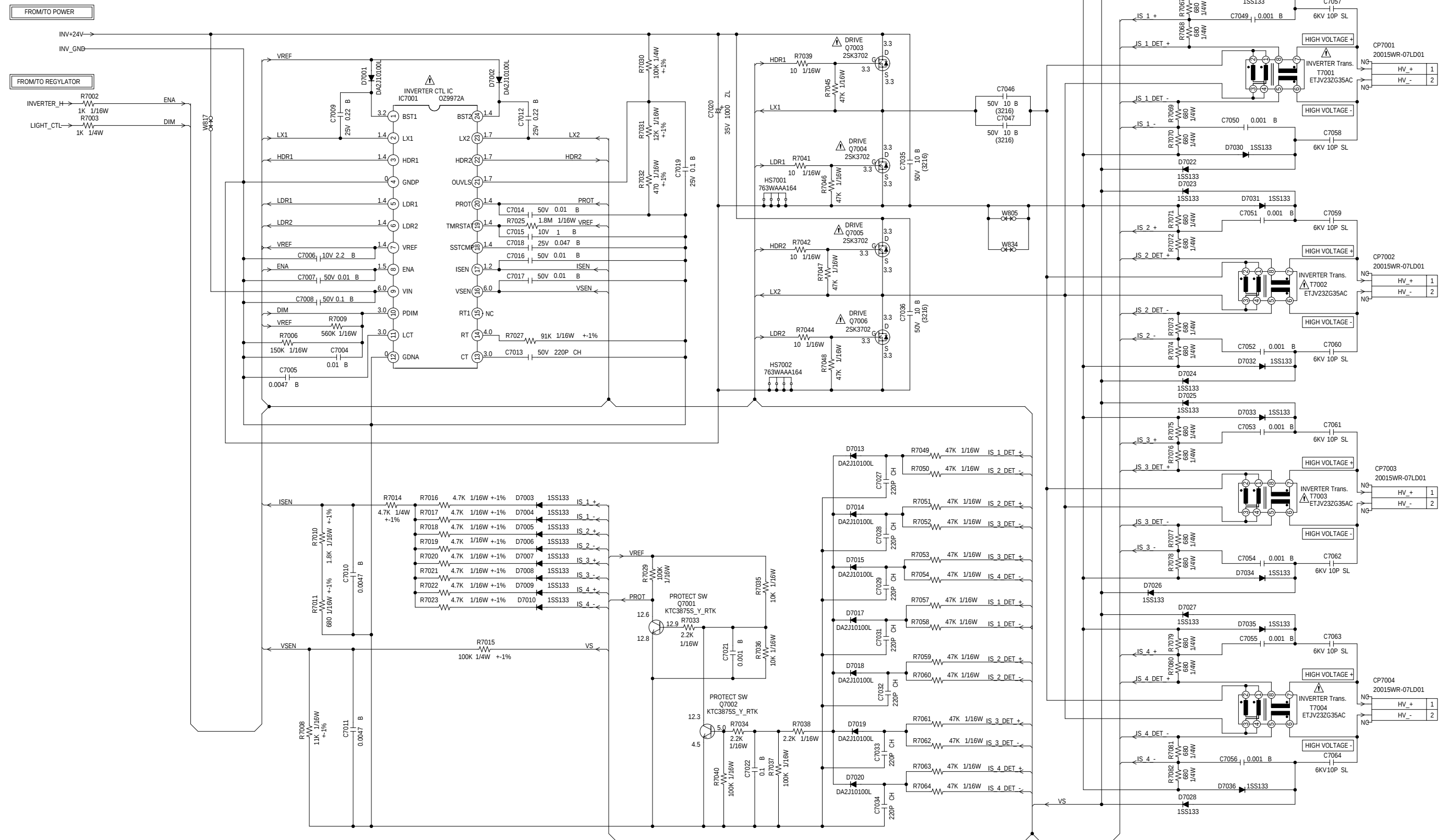
ATTENTION LES PIECES REPARÉES PAR UN ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

PCBF40
CML222



INVERTER SCHEMATIC DIAGRAM (POWER PCB)



CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION LES PIECES REPARÉES PAR UN ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

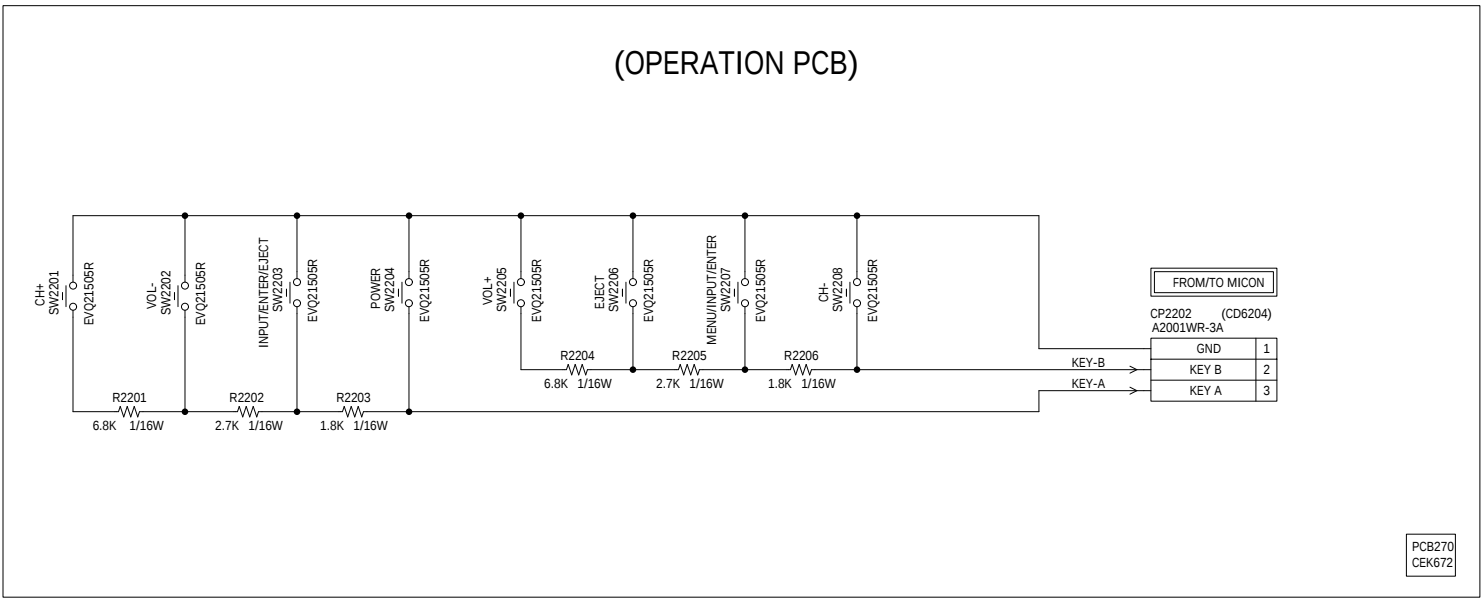
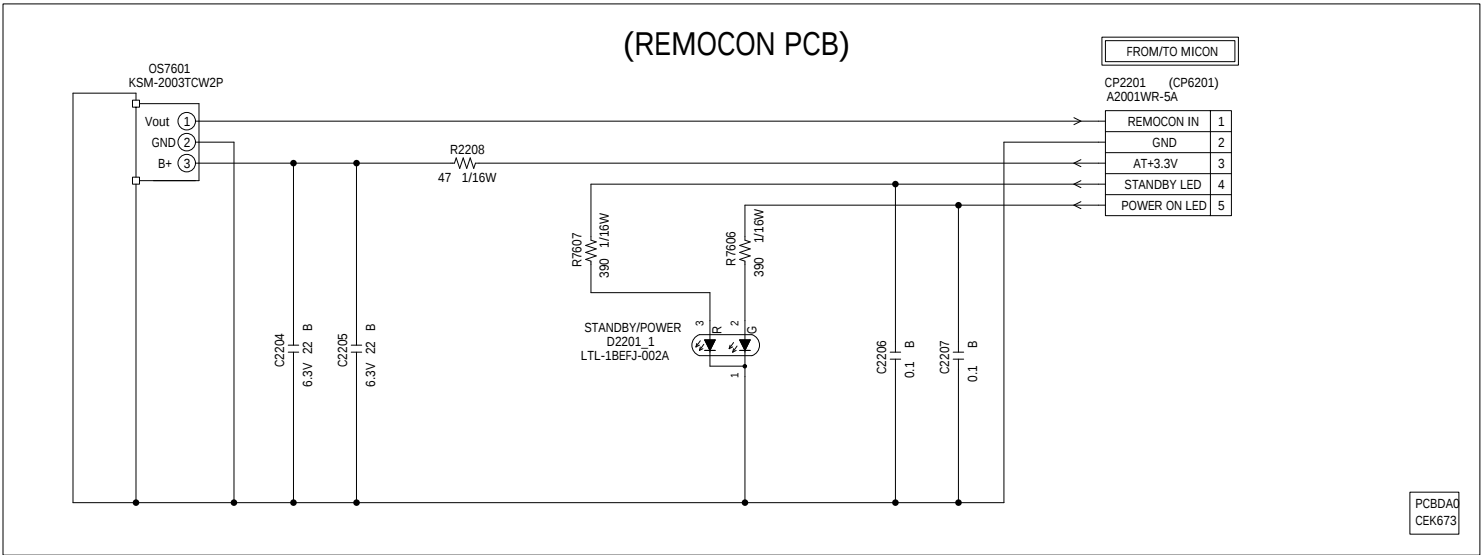
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE: THE RESISTOR MARKED F IS FUSE RESISTOR. THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP IS NON POLAR ONE.

PCB240
CEK671

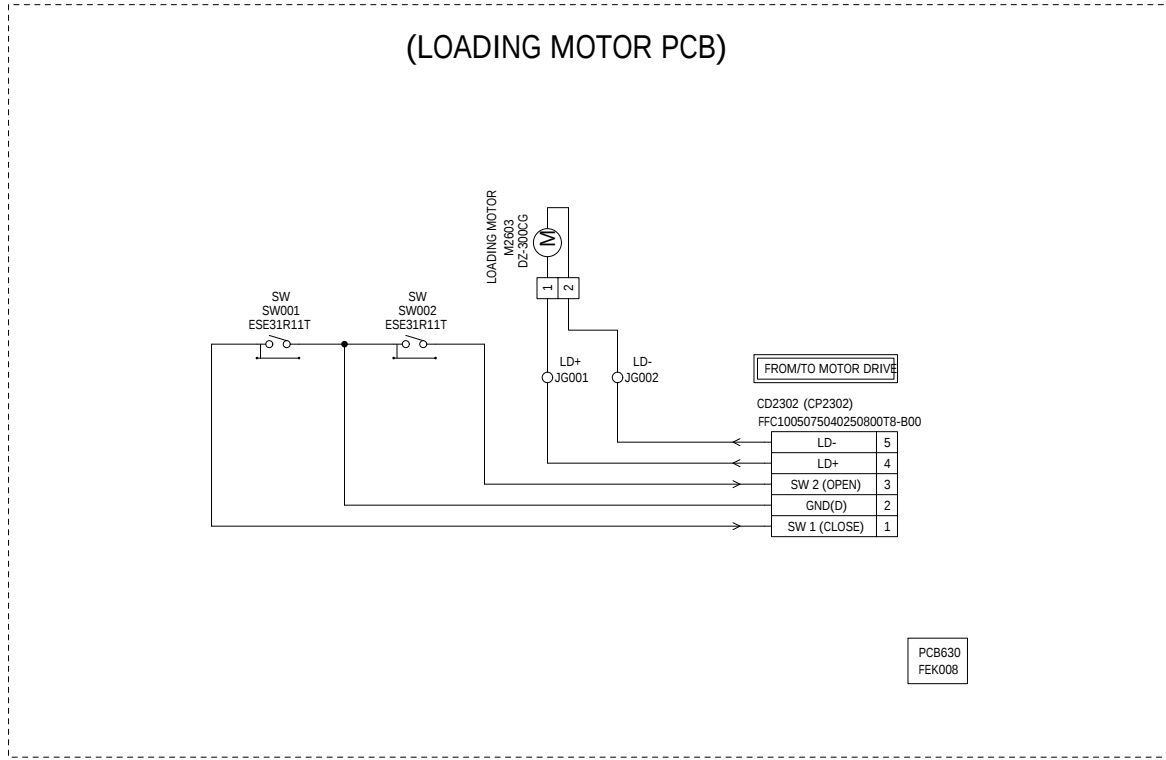
OPERATION/REMOCON SCHEMATIC DIAGRAM
(POWER PCB)



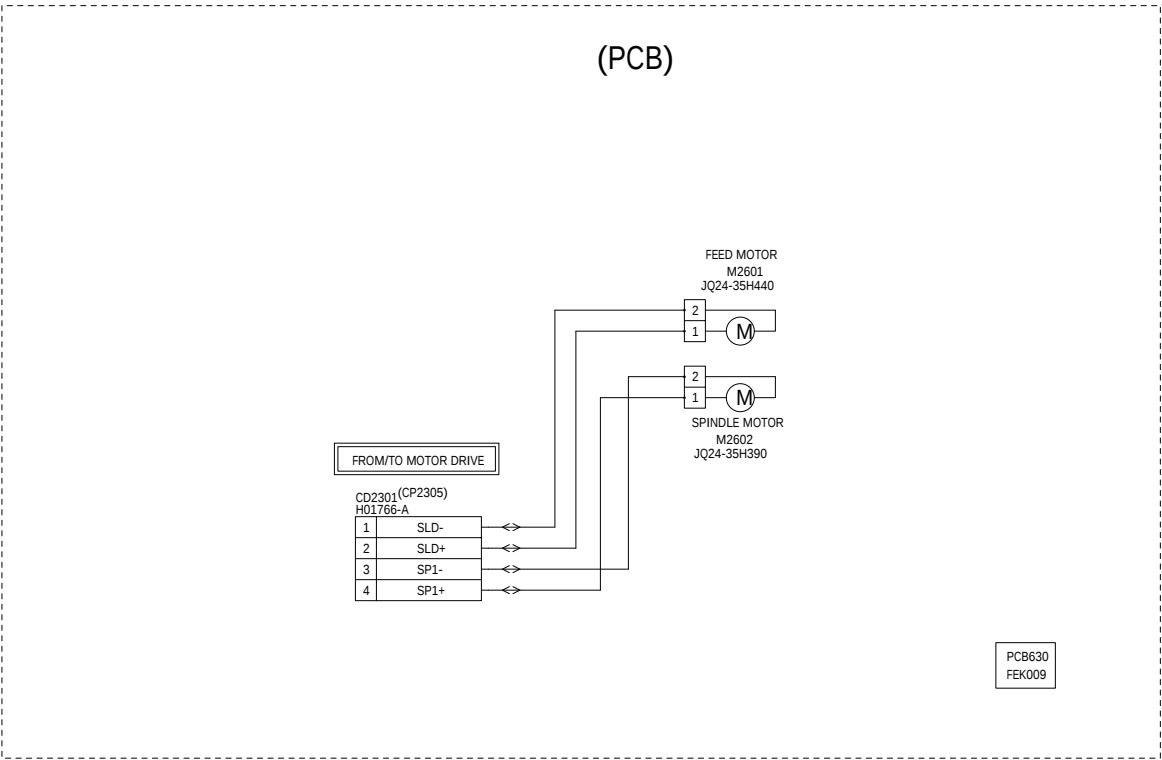
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

LOADING MOTOR SCHEMATIC DIAGRAM

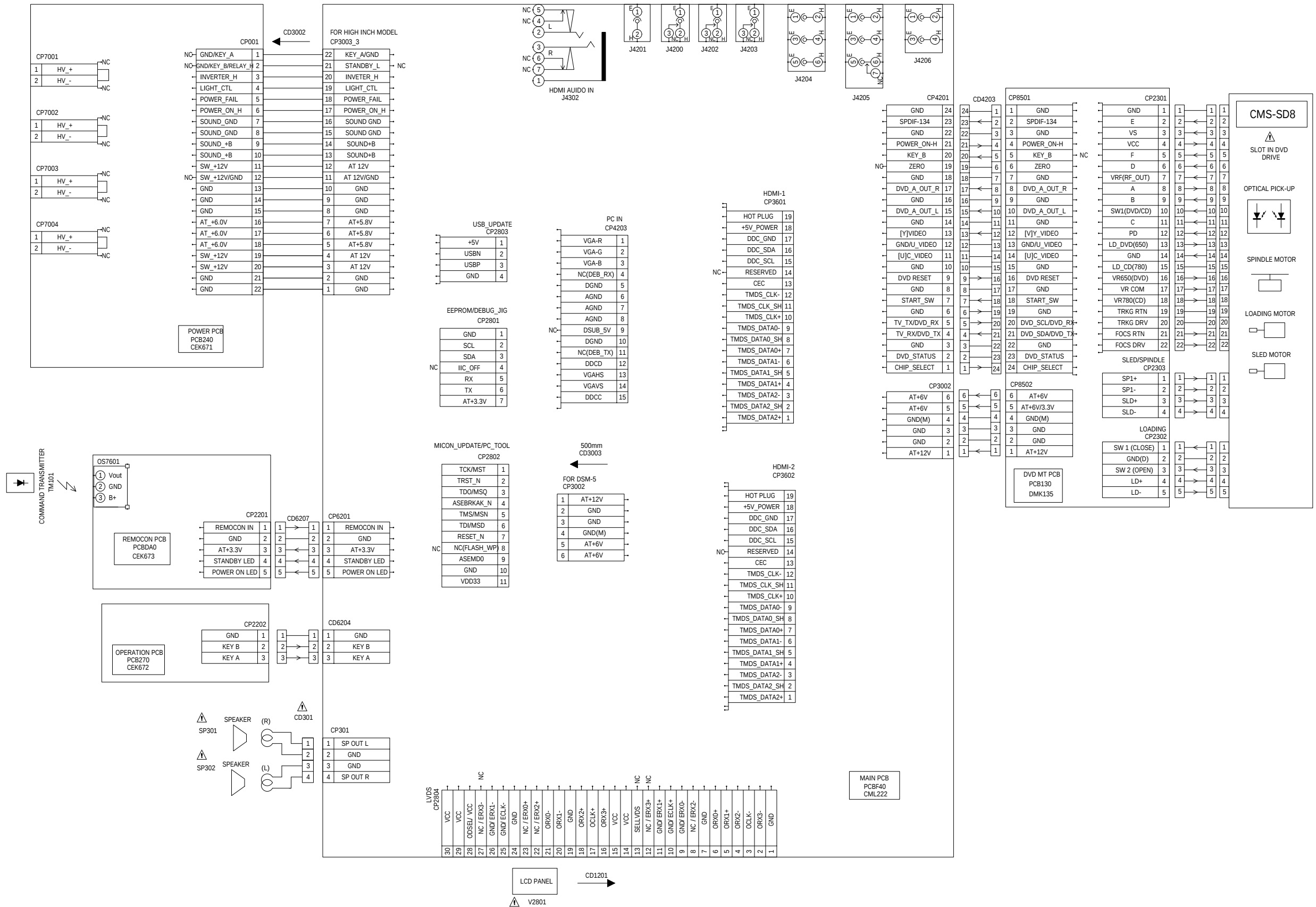


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.



NOTE: THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

INTERCONNECTION DIAGRAM



NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION: LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

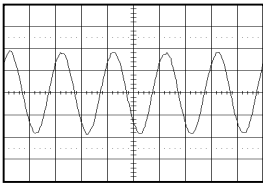
CAUTION SINCE THESE PARTS MARKED BY  ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY .

WAVEFORMS

FLASH

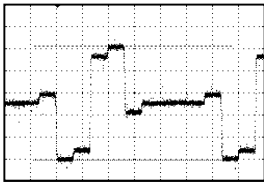
20ns
200mV

1



10us
100mV

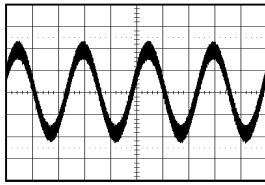
10



SOUND

1ms
200mV

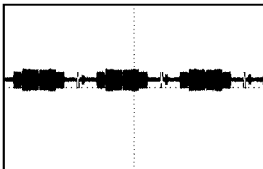
40



SCALER VIDEO/AUDIO

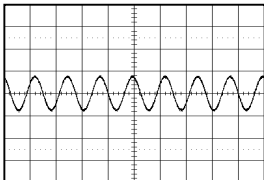
20us
500mV

3



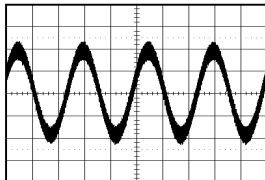
2ms
100mV

11



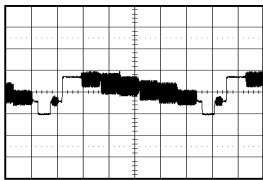
1ms
200mV

41



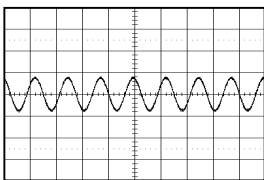
10us
0.5V

6



2ms
100mV

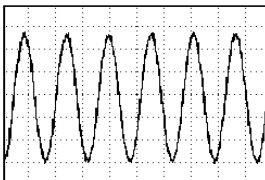
12



MPEG/MICON/DSP

5ns
200mV

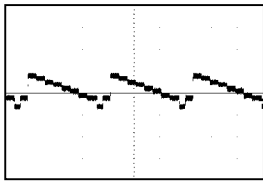
50



JACK

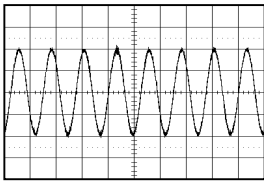
20us
500mV

7



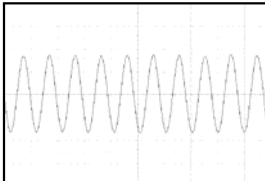
2ms
100mV

13



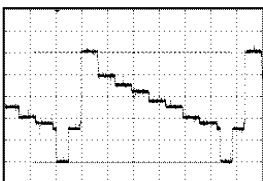
20ns
200mV

51



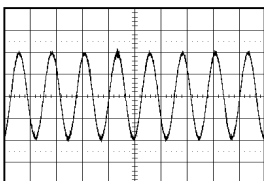
10us
200mV

8



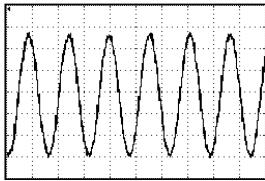
2ms
100mV

14



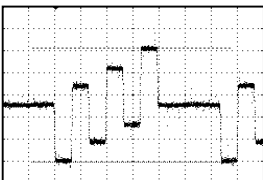
5ns
200mV

54



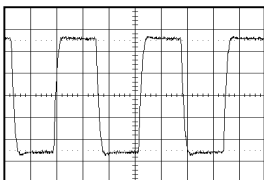
10us
100mV

9



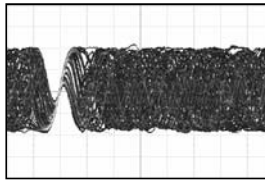
0.2us
200mV

15



200ns
200mV

55



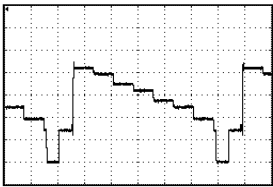
NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

VIDEO/AUDIO IN/OUT

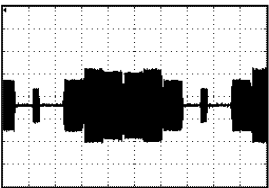
10us
200mV

56



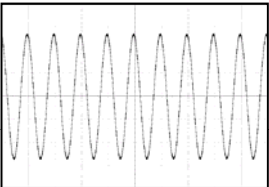
10us
200mV

57



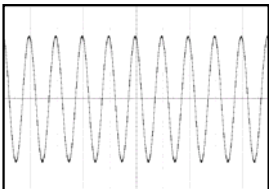
1ms
1V

58



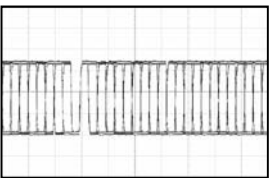
1ms
1V

59



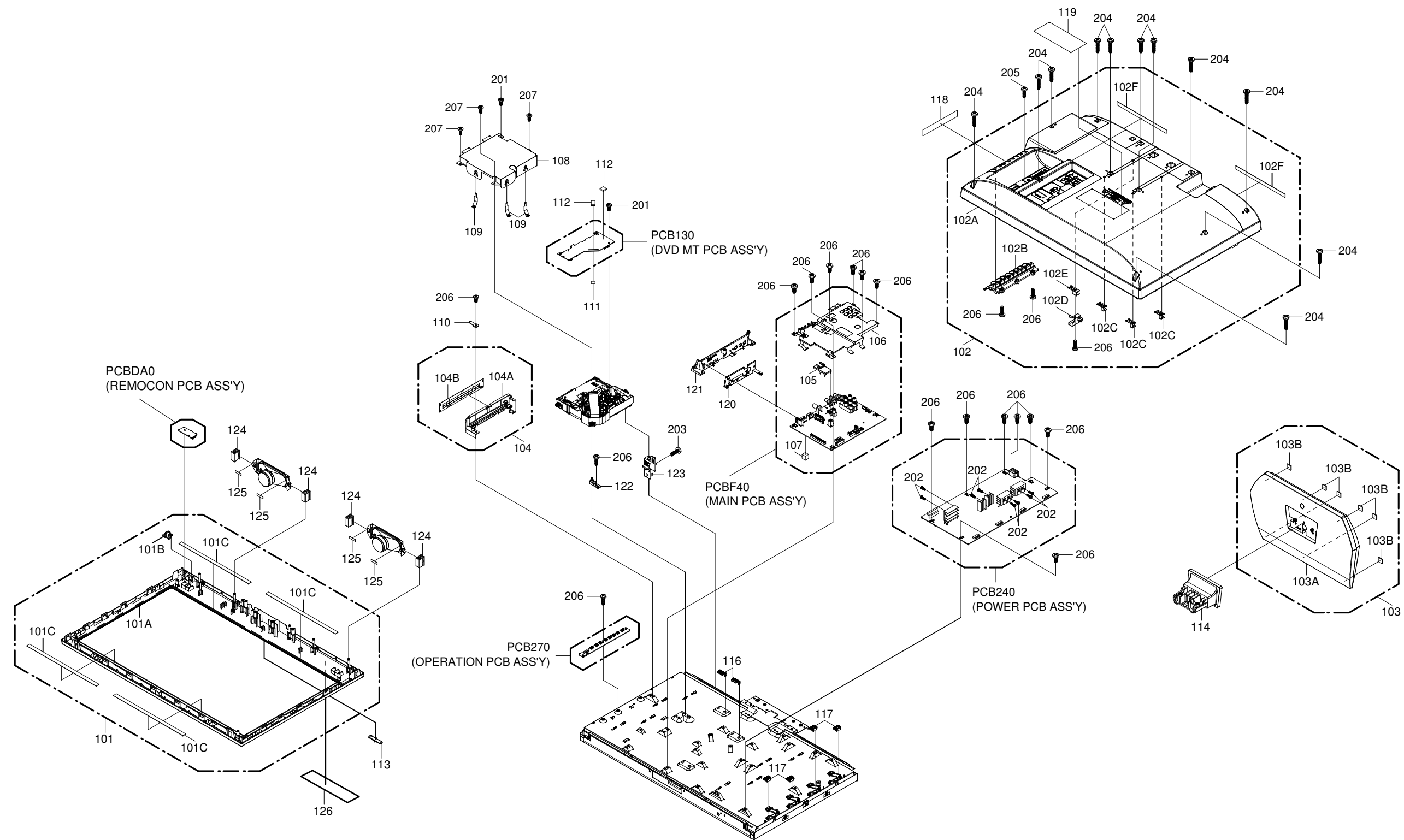
50ms
1V

60

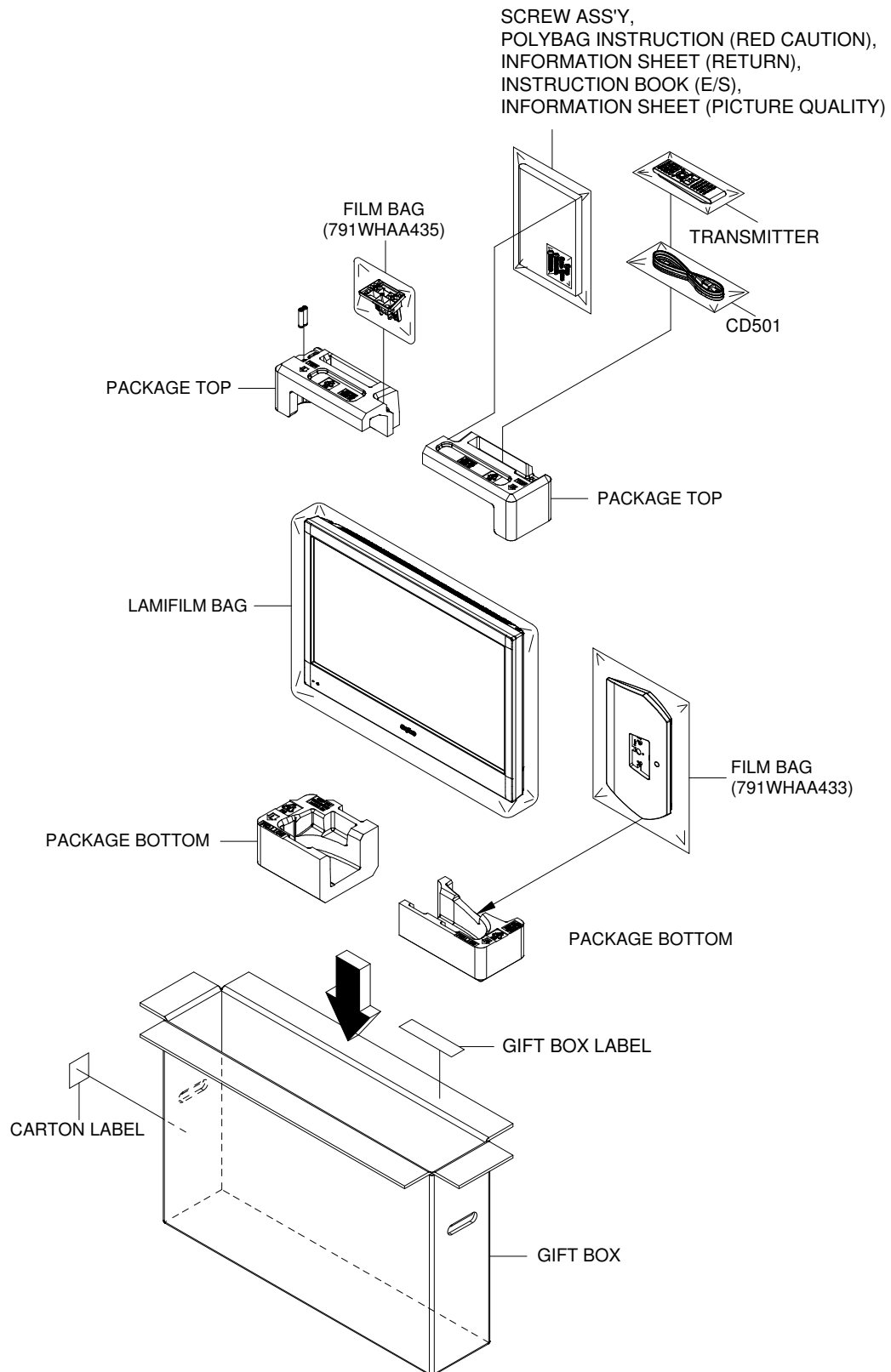


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

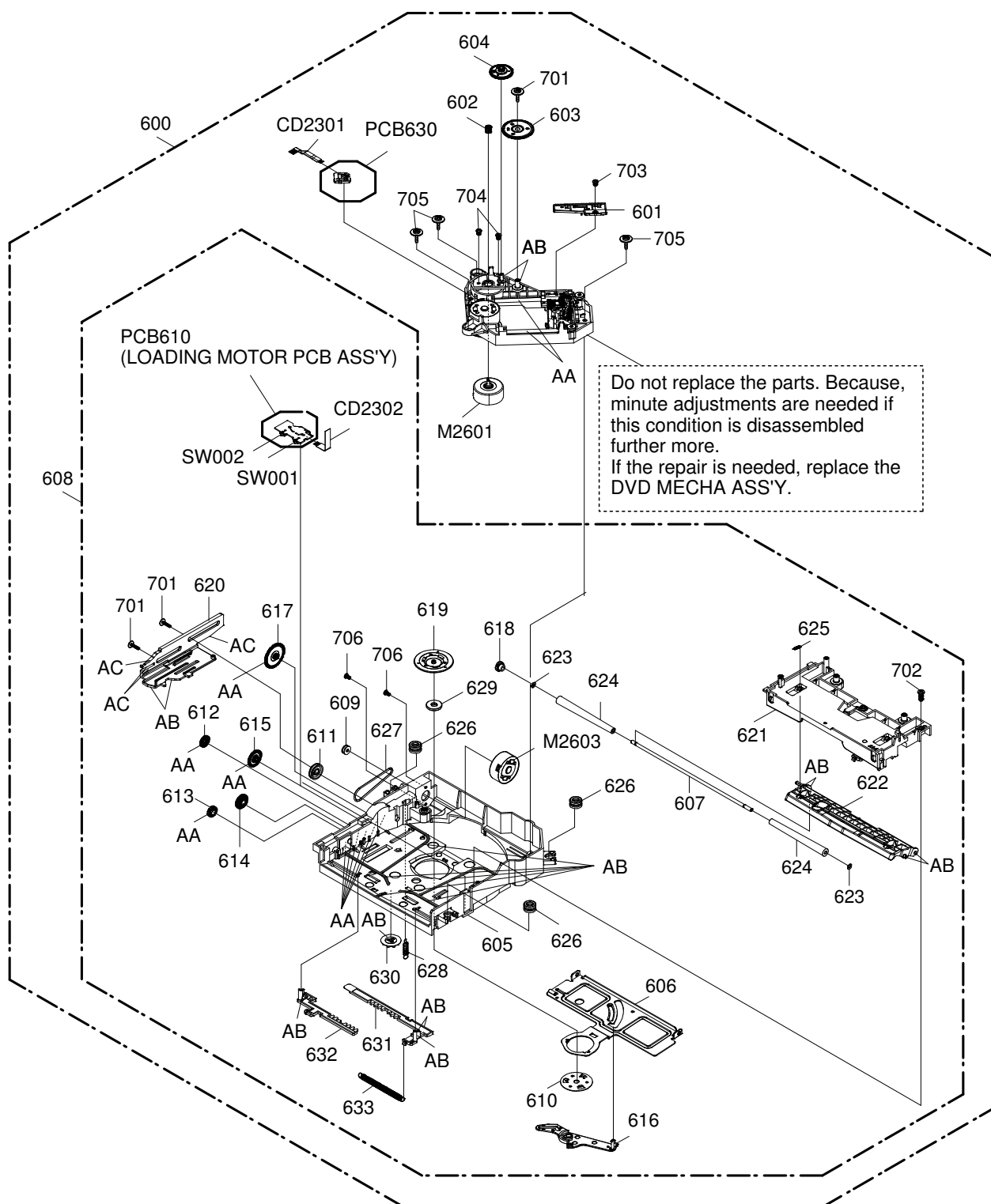
MECHANICAL EXPLODED VIEW



MECHANICAL EXPLODED VIEW (PACKING DIAGRAM)



DVD DECK EXPLODED VIEW



CLASS	PART NO.	PART NAME	MARK
GREASE	Y315141000	G-313Y	AA
	Y31D041000	CFD-5007Z	AB
	Y315181000	G-803B	AC

NOTE: Applying positions AA, AB and AC for the grease are displayed for this section. Check if the correct grease is applied for each position.

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
101	7A708A587A	FRONT CABI ASS'Y	
101A	708WPA0061	CABINET FRONT	
101B	713WPA0464	GLASS LED	
101C	800WQ00181	FELT SHEET	
102	7A702B506A	BACK CABI ASS'Y	
102A	702WPA1572	CABINET BACK	
102B	735WPA0991	BUTTON FRAME	
102C	761WSA0790	ANGLE BACK	or
	761WSA0791	ANGLE BACK	
102D	761WSA0896	ANGLE BACK 2	
102E	761WSA0897	ANGLE BACK	
102F	800WQ0A244	FELT SHEET	
103	7A704A299A	STAND ASS'Y	
103A	704WPA0176	STAND	or
	704WPA0190	STAND	
103B	800WRA0014	CUSHION LEG	
104	7A761A028A	HOLDER DECK B ASS'Y	
104A	761WPA0649	HOLDER DECK B	
104B	800WQ0A331	FELT SHEET (DVD)	
105	752WSAA202	SHIELD TUNER	
106	752WSA0817	SHIELD DIGITAL	
107	800WFA0143	CUSHION	
108	752WSA0808	SHIELD DECK	
109	753WUAA006	SPRING EARTH HEAD AMP	
110	761WSAA357	EARTH RUG	
111	800WFOA034	CUSHION	
112	800WRAA002	CUSHION LEG	
113	723529A004	BADGE BRAND	1AV2BAAS025
114	704WPA0177	STAND FRAME	or
	704WPA0191	STAND FRAME	
115	709WPA0051	HOLDER WIRE	
116	709WPA0054	HOLDER WIRE	
117	709WPA0072	HOLDER WIRE	
118	721000A016	SHEET BUTTON	
119	7225290031	SHEET RATING	
120	752WUA0026	SHIELD JACK	
121	761WPA0644	PLATE JACK	
122	761WPA0647	HOLDER DECK A	
123	761WPA0648	HOLDER DECK C	
124	800CR00001	DAMPER SPEAKER	
125	800WQ00193	FELT SHEET	
126	723000F251	ENERGY GUIDE LABEL	
201	811022080U	SCREW,TAP TITE(P) BIND	2x8
202	8109I30A0U	SCREW TAP TITE(B) WH7	3x10
203	8109230A0U	SCREW TAP TITE(B) BIND	3x10
204	8109230A4S	SCREW TAP TITE(B) BIND	3x14
205	810923080S	SCREW TAP TITE(B) BIND	3x8
206	810923080U	SCREW TAP TITE(B) BIND	3x8
207	811022680U	SCREW TAP TITE(P) BIND	2.6x8
---	723000E805	CARTON LABEL	
---	723000F346	GIFT BOX LABEL	
---	791WHAA240	LAMIFILM BAG	
---	791WHAA433	FILM BAG	
---	791WHAA435	FILM BAG	
---	792WHA0848	PACKAGE TOP	
---	792WHA0849	PACKAGE BOTTOM	
---	793WCDE662	GIFT BOX	
---	7G789A006A	SCREW ASS'Y	
---	J37I0529A	INFORMATION SHEET(RETURN)	
---	J57Q0121A	INSTRUCTION BOOK(E/S)	
---	J57Q0159A	INFORMATION SHEET(PICTURE QUALITY)	
---	JA5KD001	POLYBAG INSTRUCTION(RED CAUTION)	

DVD DECK REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
△ 600	A55Z01K650	DVD MECHA ASS'Y	A55Z01K650
601	92AAA0029A	FEED RACK ASSY	
602	92P100203A	GEAR MOTOR	
603	92P100201A	GEAR FEED	
604	92P100202A	GEAR MIDDLE	
605	92P100225A	FRAME	
606	92P000048A	PLATE LIFTER	
607	92P500018A	SHAFT ROLLER	
608	A55Z01K700	LOADER SUB ASS'Y	
609	92P100226A	PULLEY MOTOR	
610	92P000049A	PLATE CLAMPER	
611	92P100227A	GEAR PULLEY	
612	92P100228A	GEAR MAIN	
613	92P100229A	GEAR MIDDLE 1	
614	92P100230A	GEAR MIDDLE 2	
615	92P100231A	GEAR MIDDLE 3	
616	92P100239A	LEVER GUIDE	
617	92P100232A	GEAR MIDDLE 4	
618	92P100233A	GEAR ROLLER	
619	92P100234A	CLAMPER	
620	92P100238A	RACK BASE	
621	92P100240A	PLATE HOLDER	
622	92P100241A	SHUTTER ROLLER	
623	92P100180A	LUMIRROR WASHER	
624	92P200020A	ROLLER CONE	
625	92P300048A	SPRING SHUTTER	
626	92P200030A	INSULATOR	
627	92P200031A	BELT LOADING	
628	92P300051A	SPRING LIFTER	
629	92P400016A	MAGNET	
630	92P100235A	GEAR RACK DISC	
631	92P100236A	RACK DISC SENSOR L	
632	92P100237A	RACK DISC SENSOR R	
633	92P300050A	SPRING RACK D SENSOR	
701	92P700020A	SCREW TAP TITE(P) PAN WH5.4	1.7x8
702	92P700018A	SCREW TAP TITE(P) BIND	2.6x8
703	813381750U	SCREW,T-TITE(B)CAMERA PAN	M1.7x5.0 P3
704	814011723U	SCREW,PAN	M1.7x2.3 P3
705	92P700017A	SCREW TAP TITE(P)BIND WH7	M2.6x8
706	814011730U	SCREW,PAN	M1.7x3 P3
CD2301	12C1040401	CORD JUMPER	FFC1004040040250800T8-B00
CD2302	12C1050701	CORD JUMPER	FFC1005075040250800T8-B00
M2601	1515U98012	MOTOR	JQ24-35H440C or
	1515K98010	MOTOR	DZ-300CE
M2603	1515U98013	MOTOR	JQ24-35H440D or
	1596Q98006	MOTOR	DZ-300CG
PCB610	A55Z01K610	LOADING MOTOR PCB ASS'Y	FEK008A
PCB630	13FEK009AW	PCB	FEK009A
SW001	0500101042	PUSH SWITCH	ESE31R11T
SW002	0500101042	PUSH SWITCH	ESE31R11T

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
RESISTORS				RESISTORS			
R300	R808R9470J	RC	47 OHM 1/16W	R2871	R808R9472J	RC	4.7K OHM 1/16W
R301	R808R9330J	RC	33 OHM 1/16W	R2875	R808R9472J	RC	4.7K OHM 1/16W
R303	R808R9330J	RC	33 OHM 1/16W	R2882	R808R9472J	RC	4.7K OHM 1/16W
R304	R808R9222J	RC	2.2K OHM 1/16W	R2883	R808R9472J	RC	4.7K OHM 1/16W
R306	R802R8220J	RC	22 OHM 1/8W	R2894	R808R9220J	RC	22 OHM 1/16W
R307	R802R8220J	RC	22 OHM 1/8W	R2896	R808R9220J	RC	22 OHM 1/16W
R308	R801R76R8J	RC	6.8 OHM 1/10W	R2898	R808R9472J	RC	4.7K OHM 1/16W
R309	R801R76R8J	RC	6.8 OHM 1/10W	R2908	R808R9472J	RC	4.7K OHM 1/16W
R310	R801R76R8J	RC	6.8 OHM 1/10W	R2915	R808R9472J	RC	4.7K OHM 1/16W
R311	R801R76R8J	RC	6.8 OHM 1/10W	R2916	R808R9472J	RC	4.7K OHM 1/16W
R2201	R803R9682J	RC	6.8K OHM 1/16W	R2917	R808R9472J	RC	4.7K OHM 1/16W
R2202	R803R9272J	RC	2.7K OHM 1/16W	R2920	R808R9103J	RC	10K OHM 1/16W
R2203	R803R9182J	RC	1.8K OHM 1/16W	R3002	R808R9103J	RC	10K OHM 1/16W
R2204	R803R9682J	RC	6.8K OHM 1/16W	R3004	R808R9103J	RC	10K OHM 1/16W
R2205	R803R9272J	RC	2.7K OHM 1/16W	R3005	R808R9223J	RC	22K OHM 1/16W
R2206	R803R9182J	RC	1.8K OHM 1/16W	R3008	R808R9103J	RC	10K OHM 1/16W
R2208	R803R9470J	RC	47 OHM 1/16W	R3010	R808R9753F	RC	75K OHM 1/16W
R2301	R808R94R7J	RC	4.7 OHM 1/16W	R3012	R808R9472J	RC	4.7K OHM 1/16W
R2302	R808R94R7J	RC	4.7 OHM 1/16W	R3013	R808R9103J	RC	10K OHM 1/16W
R2306	R808R9332J	RC	3.3K OHM 1/16W	R3016	R808R9103J	RC	10K OHM 1/16W
R2307	R808R9332J	RC	3.3K OHM 1/16W	R3017	R808R9822J	RC	8.2K OHM 1/16W
R2308	R808R9103J	RC	10K OHM 1/16W	R3018	R808R9562F	RC	5.6K OHM 1/16W
R2309	R808R9332J	RC	3.3K OHM 1/16W	R3019	R808R9332F	RC	3.3K OHM 1/16W
R2310	R808R9103J	RC	10K OHM 1/16W	R3020	R808R9102F	RC	1K OHM 1/16W
R2311	R808R9103J	RC	10K OHM 1/16W	R3021	R808R9243F	RC	24K OHM 1/16W
R2312	R808R9183J	RC	18K OHM 1/16W	R3022	R808R9822J	RC	8.2K OHM 1/16W
R2313	R808R9183J	RC	18K OHM 1/16W	R3026	R808R9123F	RC	12K OHM 1/16W
R2315	R808R9822J	RC	8.2K OHM 1/16W	R3027	R808R9243F	RC	24K OHM 1/16W
R2316	R808R9332J	RC	3.3K OHM 1/16W	R3028	R83KR4101J	RC	100 OHM 1/4W
R2319	R808R9103F	RC	10K OHM 1/16W	R3029	R808R9103J	RC	10K OHM 1/16W
R2325	R808R9471J	RC	470 OHM 1/16W	R3040	R808R9102J	RC	1K OHM 1/16W
R2326	R861R4010J	RC	1 OHM 1/4W	R3072	R808R9153J	RC	15K OHM 1/16W
R2328	R808R9103F	RC	10K OHM 1/16W	R3099	R808R9103J	RC	10K OHM 1/16W
R2342	R808R9103F	RC	10K OHM 1/16W	R3601	R808R9100J	RC	10 OHM 1/16W
R2344	R808R9103F	RC	10K OHM 1/16W	R3602	R808R9100J	RC	10 OHM 1/16W
R2800	R808R9101F	RC	100 OHM 1/16W	R3611	R808R9473J	RC	47K OHM 1/16W
R2801	R808R9221J	RC	220 OHM 1/16W	R3613	R808R9473J	RC	47K OHM 1/16W
R2802	R808R9103J	RC	10K OHM 1/16W	R3615	R808R9473J	RC	47K OHM 1/16W
R2804	R808R9103J	RC	10K OHM 1/16W	R3616	R808R9152J	RC	1.5K OHM 1/16W
R2805	R808R9103J	RC	10K OHM 1/16W	R3617	R808R9473J	RC	47K OHM 1/16W
R2806	R808R9103J	RC	10K OHM 1/16W	R3618	R808R9152J	RC	1.5K OHM 1/16W
R2808	R808R9471J	RC	470 OHM 1/16W	R3619	R808R9302J	RC	3K OHM 1/16W
R2809	R808R9151F	RC	150 OHM 1/16W	R3620	R808R9302J	RC	3K OHM 1/16W
R2810	R808R9472J	RC	4.7K OHM 1/16W	R3622	R808R9472J	RC	4.7K OHM 1/16W
R2811	R808R9103J	RC	10K OHM 1/16W	R3623	R808R9472J	RC	4.7K OHM 1/16W
R2812	R808R9472J	RC	4.7K OHM 1/16W	R3624	R808R9102F	RC	1K OHM 1/16W
R2813	R808R9102J	RC	1K OHM 1/16W	R3625	R808R9102F	RC	1K OHM 1/16W
R2815	R808R9220J	RC	22 OHM 1/16W	R3627	R808R9473J	RC	47K OHM 1/16W
R2817	R808R9220J	RC	22 OHM 1/16W	R3628	R808R9473J	RC	47K OHM 1/16W
R2818	R808R9220J	RC	22 OHM 1/16W	R3629	R808R9104J	RC	100K OHM 1/16W
R2819	R808R9220J	RC	22 OHM 1/16W	R3632	R808R9472J	RC	4.7K OHM 1/16W
R2821	R808R9101F	RC	100 OHM 1/16W	R3633	R808R9104J	RC	100K OHM 1/16W
R2827	R808R9562F	RC	5.6K OHM 1/16W	R3644	R808R9302F	RC	3K OHM 1/16W
R2828	R808R9472J	RC	4.7K OHM 1/16W	R3645	R808R9222F	RC	2.2K OHM 1/16W
R2829	R808R9330J	RC	33 OHM 1/16W	R3646	R808R9561F	RC	560 OHM 1/16W
R2831	R808R9151F	RC	150 OHM 1/16W	R3801	R803R9184J	RC	180K OHM 1/16W
R2838	R808R9472J	RC	4.7K OHM 1/16W	R3802	R803R9184J	RC	180K OHM 1/16W
R2839	R808R9472J	RC	4.7K OHM 1/16W	△ R3803	R8X2R8334J	RC	330K OHM 1/8W
R2840	R808R9333J	RC	33K OHM 1/16W	△ R3806	R8X2R8334J	RC	330K OHM 1/8W
R2842	R808R9100J	RC	10 OHM 1/16W	R3807	R803R9223J	RC	22K OHM 1/16W
R2843	R808R9100J	RC	10 OHM 1/16W	R3808	R803R9184J	RC	180K OHM 1/16W
R2844	R808R9101J	RC	100 OHM 1/16W	R3809	R803R9184J	RC	180K OHM 1/16W
R2845	R808R9101F	RC	100 OHM 1/16W	R3810	R803R9102J	RC	1K OHM 1/16W
R2846	R808R9101F	RC	100 OHM 1/16W	R3811	R801R7225J	RC	2.2M OHM 1/10W
R2847	R808R9562F	RC	5.6K OHM 1/16W	△ R3812	RC31X1126J	RC	12M OHM 1W
R2848	R808R9103J	RC	10K OHM 1/16W	R3813	R002T4152J	RC	1.5K OHM 1/4W
R2849	R808R9101J	RC	100 OHM 1/16W	R3814	R801R7275J	RC	2.7M OHM 1/10W
R2850	R808R9472J	RC	4.7K OHM 1/16W	R3815	R803R9222J	RC	2.2K OHM 1/16W
R2851	R808R9221J	RC	220 OHM 1/16W	R3816	R803R9184J	RC	180K OHM 1/16W
R2852	R808R9472J	RC	4.7K OHM 1/16W	R3817	R803R9184J	RC	180K OHM 1/16W
R2853	R808R9472J	RC	4.7K OHM 1/16W	R3818	R803R9104J	RC	100K OHM 1/16W
R2856	R808R9103J	RC	10K OHM 1/16W	R3819	R803R9333J	RC	33K OHM 1/16W
R2857	R808R9102J	RC	1K OHM 1/16W	R3820	R803R9203F	RC	20K OHM 1/16W
R2858	R808R9472J	RC	4.7K OHM 1/16W	R3821	R803R9203F	RC	20K OHM 1/16W
R2859	R808R9472J	RC	4.7K OHM 1/16W	R3822	R803R9222F	RC	2.2K OHM 1/16W
R2866	R808R9103J	RC	10K OHM 1/16W	R3823	R803R9472F	RC	4.7K OHM 1/16W
R2867	R808R9103J	RC	10K OHM 1/16W	R3824	R803R9184J	RC	180K OHM 1/16W

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
RESISTORS				RESISTORS			
R3825	R801R7225J	RC	2.2M OHM 1/10W	R4059	R808R9750F	RC	75 OHM 1/16W
R3826	R803R9123F	RC	12K OHM 1/16W	R4060	R808R9750F	RC	75 OHM 1/16W
R3828	R803R9223J	RC	22K OHM 1/16W	R4061	R808R9750F	RC	75 OHM 1/16W
R3830	R002T4103J	RC	10K OHM 1/4W	R4062	R808R9750F	RC	75 OHM 1/16W
R3831	R803R9102F	RC	1K OHM 1/16W	R4066	R808R9330J	RC	33 OHM 1/16W
R3832	R801R7225J	RC	2.2M OHM 1/10W	R4200	R801R7750J	RC	75 OHM 1/10W
R3833	R801R7823J	RC	82K OHM 1/10W	R4201	R803R7101J	RC	100 OHM 1/10W
R3834	R803R9103J	RC	10K OHM 1/16W	R4202	R803R7101J	RC	100 OHM 1/10W
△R3835	R638812R2J	R,FUSE	2.2 OHM 1W	R4203	R803R7101J	RC	100 OHM 1/10W
R3836	R002T4100J	RC	10 OHM 1/4W	R4204	R801R7750J	RC	75 OHM 1/10W
R3837	R803R9220F	RC	22 OHM 1/16W	R4205	R801R7750J	RC	75 OHM 1/10W
R3838	R002T4470J	RC	47 OHM 1/4W	R4206	R801R7750J	RC	75 OHM 1/10W
R3839	R803R9100J	RC	10 OHM 1/16W	R4207	R808R9472J	RC	4.7K OHM 1/16W
R3841	R803R9103J	RC	10K OHM 1/16W	R4208	R808R9472J	RC	4.7K OHM 1/16W
R3842	R803R9103J	RC	10K OHM 1/16W	R4209	R808R9472J	RC	4.7K OHM 1/16W
R3843	R803R9472J	RC	4.7K OHM 1/16W	R4210	R808R9750J	RC	75 OHM 1/16W
R3844	R803R9102J	RC	1K OHM 1/16W	R4211	R808R9472J	RC	4.7K OHM 1/16W
R3845	R803R9220F	RC	22 OHM 1/16W	R4212	R808R9750J	RC	75 OHM 1/16W
R3846	R803R9102J	RC	1K OHM 1/16W	R4213	R808R9104J	RC	100K OHM 1/16W
R3847	R002T4331J	RC	330 OHM 1/4W	R4214	R808R9680J	RC	68 OHM 1/16W
R3849	R002T4471J	RC	470 OHM 1/4W	R4215	R808R9221J	RC	220 OHM 1/16W
R3850	R803R9103J	RC	10K OHM 1/16W	R4216	R808R9152J	RC	1.5K OHM 1/16W
△R3851	R3K78AR15J	R,METAL OXIDE	0.15 OHM 2W	R4217	R808R9332J	RC	3.3K OHM 1/16W
R3852	R803R9103J	RC	10K OHM 1/16W	R4218	R808R9222J	RC	2.2K OHM 1/16W
△R3853	R8X2R8334J	RC	330K OHM 1/8W	R4219	R803R7101J	RC	100 OHM 1/10W
R3854	R803R9471J	RC	470 OHM 1/16W	R4220	R803R7153J	RC	15K OHM 1/10W
△R3855	R3K78AR15J	R,METAL OXIDE	0.15 OHM 2W	R4221	R803R7153J	RC	15K OHM 1/10W
R3856	R803R9101J	RC	100 OHM 1/16W	R4223	R808R9682J	RC	6.8K OHM 1/16W
R3857	R803R9472J	RC	4.7K OHM 1/16W	R4224	R808R9682J	RC	6.8K OHM 1/16W
R3859	R803R9103J	RC	10K OHM 1/16W	R4225	R801R7750J	RC	75 OHM 1/10W
R3860	R803R9102J	RC	1K OHM 1/16W	R4226	R801R7750J	RC	75 OHM 1/10W
R3861	R803R9392F	RC	3.9K OHM 1/16W	R4227	R801R7750J	RC	75 OHM 1/10W
R3862	R803R9103F	RC	10K OHM 1/16W	R4228	R803R7101J	RC	100 OHM 1/10W
R3863	R803R9103F	RC	10K OHM 1/16W	R4229	R803R7101J	RC	100 OHM 1/10W
R3865	R002T4472J	RC	4.7K OHM 1/4W	R4230	R803R7101J	RC	100 OHM 1/10W
R3866	R803R9224J	RC	220K OHM 1/16W	R4231	R801R7750J	RC	75 OHM 1/10W
R3867	R002T4223J	RC	22K OHM 1/4W	R4232	R803R7101J	RC	100 OHM 1/10W
R3868	R002T4472J	RC	4.7K OHM 1/4W	R4233	R803R7153J	RC	15K OHM 1/10W
R3869	R002T4561J	RC	560 OHM 1/4W	R4234	R803R7153J	RC	15K OHM 1/10W
R3871	R002T4223J	RC	22K OHM 1/4W	R4236	R808R9682J	RC	6.8K OHM 1/16W
R3872	R002T4472J	RC	4.7K OHM 1/4W	R4237	R808R9682J	RC	6.8K OHM 1/16W
R3873	R002T4100J	RC	10 OHM 1/4W	R4238	R808R9104J	RC	100K OHM 1/16W
R3874	R002T4102J	RC	1K OHM 1/4W	R4239	R808R9104J	RC	100K OHM 1/16W
R3875	R002T4222J	RC	2.2K OHM 1/4W	R4240	R808R9561J	RC	560 OHM 1/16W
R3876	R803R9220F	RC	22 OHM 1/16W	R4241	R808R9561J	RC	560 OHM 1/16W
R4002	R808R9103J	RC	10K OHM 1/16W	R4242	R808R9222J	RC	2.2K OHM 1/16W
R4004	R808R9103J	RC	10K OHM 1/16W	R4243	R808R9222J	RC	2.2K OHM 1/16W
R4005	R808R9151J	RC	150 OHM 1/16W	R4244	R808R9102J	RC	1K OHM 1/16W
R4006	R808R9472J	RC	4.7K OHM 1/16W	R4245	R808R9472J	RC	4.7K OHM 1/16W
R4009	R808R9330J	RC	33 OHM 1/16W	R4246	R808R9102J	RC	1K OHM 1/16W
R4014	R808R9153J	RC	15K OHM 1/16W	R4247	R808R9334J	RC	330K OHM 1/16W
R4015	R808R9133F	RC	13K OHM 1/16W	R4248	R808R9683J	RC	68K OHM 1/16W
R4016	R808R9822F	RC	8.2K OHM 1/16W	R4249	R808R9330J	RC	33 OHM 1/16W
R4017	R808R9103J	RC	10K OHM 1/16W	R4250	R808R9222J	RC	2.2K OHM 1/16W
R4018	R808R9133F	RC	13K OHM 1/16W	R4251	R808R9222J	RC	2.2K OHM 1/16W
R4019	R808R9133F	RC	13K OHM 1/16W	R4252	R808R9103J	RC	10K OHM 1/16W
R4020	R808R9103J	RC	10K OHM 1/16W	R4253	R808R9102J	RC	1K OHM 1/16W
R4024	R808R9104J	RC	100K OHM 1/16W	R4254	R808R9103J	RC	10K OHM 1/16W
R4026	R808R9103J	RC	10K OHM 1/16W	R4255	R808R9472J	RC	4.7K OHM 1/16W
R4027	R808R9330J	RC	33 OHM 1/16W	R4256	R808R9102J	RC	1K OHM 1/16W
R4031	R808R9330J	RC	33 OHM 1/16W	R4257	R808R9334J	RC	330K OHM 1/16W
R4034	R808R9103J	RC	10K OHM 1/16W	R4259	R808R9683J	RC	68K OHM 1/16W
R4039	R808R9512J	RC	5.1K OHM 1/16W	R4260	R808R9103J	RC	10K OHM 1/16W
R4040	R808R9103J	RC	10K OHM 1/16W	R4263	R808R9153J	RC	15K OHM 1/16W
R4042	R808R9103J	RC	10K OHM 1/16W	R4265	R808R9102J	RC	1K OHM 1/16W
R4043	R808R9330J	RC	33 OHM 1/16W	R4266	R808R9102J	RC	1K OHM 1/16W
R4044	R808R9103J	RC	10K OHM 1/16W	R4267	R808R9330J	RC	33 OHM 1/16W
R4045	R808R9472J	RC	4.7K OHM 1/16W	R4311	R808R9472J	RC	4.7K OHM 1/16W
R4046	R808R9681F	RC	680 OHM 1/16W	R4312	R808R9472J	RC	4.7K OHM 1/16W
R4047	R808R9103J	RC	10K OHM 1/16W	R4316	R803R9153J	RC	15K OHM 1/16W
R4050	R808R9103J	RC	10K OHM 1/16W	R4317	R803R9153J	RC	15K OHM 1/16W
R4052	R808R9471J	RC	470 OHM 1/16W	R4318	R808R9682J	RC	6.8K OHM 1/16W
R4053	R808R9330J	RC	33 OHM 1/16W	R4319	R808R9682J	RC	6.8K OHM 1/16W
R4054	R808R9330J	RC	33 OHM 1/16W	R5801	R808R9121J	RC	120 OHM 1/16W
R4055	R808R96R8J	RC	6.8 OHM 1/16W	R5802	R808R9200J	RC	20 OHM 1/16W
R4056	R808R9100J	RC	10 OHM 1/16W	R5803	R808R9470J	RC	47 OHM 1/16W
R4057	R808R9680J	RC	68 OHM 1/16W	R5812	R808R9222J	RC	2.2K OHM 1/16W

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
RESISTORS				RESISTORS			
R5814	R808R9332J	RC	3.3K OHM 1/16W	R7606	R803R9391J	RC	390 OHM 1/16W
R5815	R808R9332J	RC	3.3K OHM 1/16W	R7607	R803R9391J	RC	390 OHM 1/16W
R5817	R808R9682J	RC	6.8K OHM 1/16W	R8501	R808R9100J	RC	10 OHM 1/16W
R5818	R808R9101J	RC	100 OHM 1/16W	R8502	R808R9100J	RC	10 OHM 1/16W
R5819	R808R9220J	RC	22 OHM 1/16W	R8503	R808R9334J	RC	330K OHM 1/16W
R6207	R808R9103J	RC	10K OHM 1/16W	R8504	R808R9103J	RC	10K OHM 1/16W
R6208	R808R9472J	RC	4.7K OHM 1/16W	R8505	R808R9103J	RC	10K OHM 1/16W
R6501	R808R9101J	RC	100 OHM 1/16W	R8506	R808R9334J	RC	330K OHM 1/16W
R6502	R808R9101J	RC	100 OHM 1/16W	R8507	R808R9100J	RC	10 OHM 1/16W
R7002	R803R9102J	RC	1K OHM 1/16W	R8509	R808R9223J	RC	22K OHM 1/16W
R7003	R002T4102J	RC	1K OHM 1/4W	R8510	R808R9562J	RC	5.6K OHM 1/16W
R7006	R803R9154J	RC	150K OHM 1/16W	R8511	R808R9103J	RC	10K OHM 1/16W
R7008	R803R9113F	RC	11K OHM 1/16W	R8513	R808R9103J	RC	10K OHM 1/16W
R7009	R803R9564J	RC	560K OHM 1/16W	R8515	R808R9103J	RC	10K OHM 1/16W
R7010	R803R9182F	RC	1.8K OHM 1/16W	R8516	R808R9103J	RC	10K OHM 1/16W
R7011	R803R9681F	RC	680 OHM 1/16W	R8519	R808R9330J	RC	33 OHM 1/16W
R7014	R4K1T4472F	R,METAL	4.7K OHM 1/4W	R8522	R808R9223J	RC	22K OHM 1/16W
R7015	R4K1T4104F	R,METAL	100K OHM 1/4W	R8523	R808R9223J	RC	22K OHM 1/16W
R7016	R803R9472F	RC	4.7K OHM 1/16W	R8525	R808R9221J	RC	220 OHM 1/16W
R7017	R803R9472F	RC	4.7K OHM 1/16W	R8526	R808R9221J	RC	220 OHM 1/16W
R7018	R803R9472F	RC	4.7K OHM 1/16W	R8527	R808R9103J	RC	10K OHM 1/16W
R7019	R803R9472F	RC	4.7K OHM 1/16W	R8531	R808R9103J	RC	10K OHM 1/16W
R7020	R803R9472F	RC	4.7K OHM 1/16W	R8533	R808R9103J	RC	10K OHM 1/16W
R7021	R803R9472F	RC	4.7K OHM 1/16W	R8534	R803R9330J	RC	33 OHM 1/16W
R7022	R803R9472F	RC	4.7K OHM 1/16W	R8535	R808R9103J	RC	10K OHM 1/16W
R7023	R803R9472F	RC	4.7K OHM 1/16W	R8536	R808R9103J	RC	10K OHM 1/16W
R7025	R803R9185J	RC	1.8M OHM 1/16W	R8538	R808R9562F	RC	5.6K OHM 1/16W
R7027	R803R9913F	RC	91K OHM 1/16W	R8539	R808R9471F	RC	470 OHM 1/16W
R7029	R803R9104J	RC	100K OHM 1/16W	R8540	R808R9472F	RC	4.7K OHM 1/16W
R7030	R4K1T4104F	R,METAL	100K OHM 1/4W	R8541	R803R9681J	RC	680 OHM 1/16W
R7031	R803R9123F	RC	12K OHM 1/16W	R8542	R808R9100J	RC	10 OHM 1/16W
R7032	R803R9471F	RC	470 OHM 1/16W	R8543	R808R9102J	RC	1K OHM 1/16W
R7033	R803R9222J	RC	2.2K OHM 1/16W	R8544	R81ZR2R47J	RC	0.47 OHM 1/2W
R7034	R803R9222J	RC	2.2K OHM 1/16W	CAPACITORS			
R7035	R803R9103J	RC	10K OHM 1/16W	C300	CS0UB0N15K	CC	0.1 UF 10V B
R7036	R803R9103J	RC	10K OHM 1/16W	C301	CS0UB0N15K	CC	0.1 UF 10V B
R7037	R803R9104J	RC	100K OHM 1/16W	C302	CS0UB0N15K	CC	0.1 UF 10V B
R7038	R803R9222J	RC	2.2K OHM 1/16W	C304	CS0UB0413K	CC	0.001 UF 50V B
R7039	R803R9100J	RC	10 OHM 1/16W	C305	CS0UB04Q3K	CC	0.0047UF 50V B
R7040	R803R9104J	RC	100K OHM 1/16W	C306	CS0PB0315K	CC	0.1 UF 25V B
R7041	R803R9100J	RC	10 OHM 1/16W	C307	CS0RB04Q5K	CC	0.47 UF 50V B
R7042	R803R9100J	RC	10 OHM 1/16W	C308	CS0UCH4U2J	CC	680 PF 50V CH
R7044	R803R9100J	RC	10 OHM 1/16W	C309	CS0PB0316K	CC	1 UF 25V B
R7045	R803R9473J	RC	47K OHM 1/16W	C310	CS0PB0316K	CC	1 UF 25V B
R7046	R803R9473J	RC	47K OHM 1/16W	C311	CS0PB0315K	CC	0.1 UF 25V B
R7047	R803R9473J	RC	47K OHM 1/16W	C312	CS0PB0315K	CC	0.1 UF 25V B
R7048	R803R9473J	RC	47K OHM 1/16W	C313	E7EST3471M	CE	470 UF 25V
R7049	R803R9473J	RC	47K OHM 1/16W	C315	CS0PB0315K	CC	0.1 UF 25V B
R7050	R803R9473J	RC	47K OHM 1/16W	C316	CS0PB0315K	CC	0.1 UF 25V B
R7051	R803R9473J	RC	47K OHM 1/16W	C317	CS0UB04L2K	CC	330 PF 50V B
R7052	R803R9473J	RC	47K OHM 1/16W	C318	CS0UB04L2K	CC	330 PF 50V B
R7053	R803R9473J	RC	47K OHM 1/16W	C319	CS0PB0415K	CC	0.1 UF 50V B
R7054	R803R9473J	RC	47K OHM 1/16W	C320	CS0PB0415K	CC	0.1 UF 50V B
R7057	R803R9473J	RC	47K OHM 1/16W	C321	CS0PB0415K	CC	0.1 UF 50V B
R7058	R803R9473J	RC	47K OHM 1/16W	C322	CS0PB0415K	CC	0.1 UF 50V B
R7059	R803R9473J	RC	47K OHM 1/16W	C323	CS0PB0415K	CC	0.1 UF 50V B
R7060	R803R9473J	RC	47K OHM 1/16W	C324	CS0PB0415K	CC	0.1 UF 50V B
R7061	R803R9473J	RC	47K OHM 1/16W	C325	CS0PB0415K	CC	0.1 UF 50V B
R7062	R803R9473J	RC	47K OHM 1/16W	C326	CS0PB0415K	CC	0.1 UF 50V B
R7063	R803R9473J	RC	47K OHM 1/16W	C327	CS0UB0413K	CC	0.001 UF 50V B
R7064	R803R9473J	RC	47K OHM 1/16W	C328	CS0UB0413K	CC	0.001 UF 50V B
R7067	R002T4681J	RC	680 OHM 1/4W	C329	CS0UB0413K	CC	0.001 UF 50V B
R7068	R002T4681J	RC	680 OHM 1/4W	C330	CS0UB0413K	CC	0.001 UF 50V B
R7069	R002T4681J	RC	680 OHM 1/4W	C331	CS0UB0413K	CC	0.001 UF 50V B
R7070	R002T4681J	RC	680 OHM 1/4W	C332	CS0UB0413K	CC	0.001 UF 50V B
R7071	R002T4681J	RC	680 OHM 1/4W	C333	CS0RB04Q5K	CC	0.47 UF 50V B
R7072	R002T4681J	RC	680 OHM 1/4W	C335	CS0UCH4Q1J	CC	47 PF 50V CH
R7073	R002T4681J	RC	680 OHM 1/4W	C336	CS0UCH4Q1J	CC	47 PF 50V CH
R7074	R002T4681J	RC	680 OHM 1/4W	C2204	CS0RB0PH7M	CC	22 UF 6.3V B
R7075	R002T4681J	RC	680 OHM 1/4W	C2205	CS0RB0PH7M	CC	22 UF 6.3V B
R7076	R002T4681J	RC	680 OHM 1/4W	C2206	CS0PB0315K	CC	0.1 UF 25V B
R7077	R002T4681J	RC	680 OHM 1/4W	C2207	CS0PB0315K	CC	0.1 UF 25V B
R7078	R002T4681J	RC	680 OHM 1/4W	C2301	CS0UB0315K	CC	0.1 UF 25V B
R7079	R002T4681J	RC	680 OHM 1/4W	C2303	CS0UB0315K	CC	0.1 UF 25V B
R7080	R002T4681J	RC	680 OHM 1/4W	C2305	CS0UB0315K	CC	0.1 UF 25V B
R7081	R002T4681J	RC	680 OHM 1/4W	C2306	E72BM2470M	CE	47 UF 16V
R7082	R002T4681J	RC	680 OHM 1/4W	C2307	CS0UB0315K	CC	0.1 UF 25V B

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
CAPACITORS				CAPACITORS			
C2308	CS0UCH4L1J	CC	33 PF 50V CH	C2870	CS0UB0N15K	CC	0.1 UF 10V B
C2309	CS0UCH412J	CC	100 PF 50V CH	C2871	CS0UB0N15K	CC	0.1 UF 10V B
C2310	CS0UB0413K	CC	0.001 UF 50V B	C2872	CS0UB0N15K	CC	0.1 UF 10V B
C2311	CS0UB0315K	CC	0.1 UF 25V B	C2873	CS0UB0N15K	CC	0.1 UF 10V B
C2312	CS0UCH4H2J	CC	220 PF 50V CH	C2874	CS0RB0N17K	CC	10 UF 10V B
C2313	CS0UCH4H2J	CC	220 PF 50V CH	C2875	CS0UB0N15K	CC	0.1 UF 10V B
C2320	E72BM0470M	CE	47 UF 6.3V	C2876	CS0UB0N15K	CC	0.1 UF 10V B
C2321	E72BM0470M	CE	47 UF 6.3V	C2877	CS0UB0N15K	CC	0.1 UF 10V B
C2322	CS0PB03H5K	CC	0.22 UF 25V B	C2878	CS0UB0214K	CC	0.01 UF 16V B
C2323	CS0PB03H5K	CC	0.22 UF 25V B	C2879	CS0UB0N15K	CC	0.1 UF 10V B
C2324	CS0UCH412J	CC	100 PF 50V CH	C2880	CS0UB0N15K	CC	0.1 UF 10V B
C2328	CS0UB0314K	CC	0.01 UF 25V B	C2881	CS0UB0N15K	CC	0.1 UF 10V B
C2330	CS0UCH412J	CC	100 PF 50V CH	C2882	CS0UB0N15K	CC	0.1 UF 10V B
C2332	CS0UCH411J	CC	10 PF 50V CH	C2883	CS0UB0N15K	CC	0.1 UF 10V B
C2333	CS0UB0314K	CC	0.01 UF 25V B	C2884	CS0UB0N15K	CC	0.1 UF 10V B
C2334	CS0UCH412J	CC	100 PF 50V CH	C2885	CS0UB0N15K	CC	0.1 UF 10V B
C2335	CS0UCH412J	CC	100 PF 50V CH	C2886	CS0UB0N15K	CC	0.1 UF 10V B
C2336	CS0UB0315K	CC	0.1 UF 25V B	C2887	CS0UB0NH5K	CC	0.22 UF 10V B
C2800	CS0UB0N15K	CC	0.1 UF 10V B	C2888	CS0RB0N17K	CC	10 UF 10V B
C2801	CS0UB0N15K	CC	0.1 UF 10V B	C2891	CS0RB0N17K	CC	10 UF 10V B
C2805	CS0UB0214K	CC	0.01 UF 16V B	C2894	CS0RB0N17K	CC	10 UF 10V B
C2807	CS0UCH4K1J	CC	27 PF 50V CH	C2895	CS0UB0N15K	CC	0.1 UF 10V B
C2808	CS0UCH4H1J	CC	22 PF 50V CH	C2897	CS0RB0N17K	CC	10 UF 10V B
C2809	CS0UB0413K	CC	0.001 UF 50V B	C2898	CS0PB0NH6K	CC	2.2 UF 10V B
C2812	CS0UB0N15K	CC	0.1 UF 10V B	C2899	CS0PB0N16K	CC	1 UF 10V B
C2813	CS0PB0N16K	CC	1 UF 10V B	C2901	CS0UB0N15K	CC	0.1 UF 10V B
C2814	CS0PB0N16K	CC	1 UF 10V B	C2902	CS0RB0N17K	CC	10 UF 10V B
C2815	CS0UB0N15K	CC	0.1 UF 10V B	C2903	CS0UB0413K	CC	0.001 UF 50V B
C2816	CS0UB0N15K	CC	0.1 UF 10V B	C2904	CS0UB0413K	CC	0.001 UF 50V B
C2817	CS0PB0N16K	CC	1 UF 10V B	C2905	CS0RB0N17K	CC	10 UF 10V B
C2818	CS0UB0N15K	CC	0.1 UF 10V B	C2906	CS0RB0N17K	CC	10 UF 10V B
C2819	CS0UB0N15K	CC	0.1 UF 10V B	C2907	CS0UB0N15K	CC	0.1 UF 10V B
C2820	CS0UB0N15K	CC	0.1 UF 10V B	C2910	CS0RB0PH7M	CC	22 UF 6.3V B
C2821	CS0UB0N15K	CC	0.1 UF 10V B	C2911	CS0RB0PH7M	CC	22 UF 6.3V B
C2822	CS0PB0N16K	CC	1 UF 10V B	C2912	CS0UB0N15K	CC	0.1 UF 10V B
C2823	CS0PB0N16K	CC	1 UF 10V B	C2914	CS0RB0217K	CC	10 UF 16V B
C2824	CS0PB0N16K	CC	1 UF 10V B	C2915	CS0PB0N16K	CC	1 UF 10V B
C2825	CS0UB0N15K	CC	0.1 UF 10V B	C2916	CS0PB0N16K	CC	1 UF 10V B
C2826	CS0UB0N15K	CC	0.1 UF 10V B	C2917	CS0RB0PH7M	CC	22 UF 6.3V B
C2827	CS0UB0N15K	CC	0.1 UF 10V B	C2918	CS0RB0PH7M	CC	22 UF 6.3V B
C2828	CS0UB0N15K	CC	0.1 UF 10V B	C2921	CS0RB0PH7M	CC	22 UF 6.3V B
C2829	CS0UB0N15K	CC	0.1 UF 10V B	C2922	CS0RB0PH7M	CC	22 UF 6.3V B
C2830	CS0UB0N15K	CC	0.1 UF 10V B	C2923	CS0PB0P17M	CC	10 UF 6.3V B
C2831	CS0UB0N15K	CC	0.1 UF 10V B	C2924	CS0UB0N15K	CC	0.1 UF 10V B
C2833	CS0UB0214K	CC	0.01 UF 16V B	C2925	CS0UB0N15K	CC	0.1 UF 10V B
C2834	CS0UB0N15K	CC	0.1 UF 10V B	C2926	E7EPU3221M	CE	220 UF 25V
C2836	CS0RB0PH7M	CC	22 UF 6.3V B	C2965	CS0UCH4H1J	CC	22 PF 50V CH
C2837	CS0UB0N15K	CC	0.1 UF 10V B	C2968	CS0UCH4H1J	CC	22 PF 50V CH
C2838	CS0UB0N15K	CC	0.1 UF 10V B	C3003	CS0RB0N17K	CC	10 UF 10V B
C2839	CS0UB0N15K	CC	0.1 UF 10V B	C3004	CS0RB0N17K	CC	10 UF 10V B
C2840	CS0RB0PH7M	CC	22 UF 6.3V B	C3008	CS0UB0N16K	CC	1 UF 10V B
C2841	CS0UB0N15K	CC	0.1 UF 10V B	C3009	CS0RB0N17K	CC	10 UF 10V B
C2842	CS0UB0N15K	CC	0.1 UF 10V B	C3011	CS0PB0N16K	CC	1 UF 10V B
C2843	CS0UB0N15K	CC	0.1 UF 10V B	C3012	CS0UB0N15K	CC	0.1 UF 10V B
C2844	CS0UB0N15K	CC	0.1 UF 10V B	C3014	CS0RB0N17K	CC	10 UF 10V B
C2845	CS0UB0N15K	CC	0.1 UF 10V B	C3017	CS0RB02Q6K	CC	4.7 UF 16V B
C2846	CS0UB0N15K	CC	0.1 UF 10V B	C3018	CS0UB0413K	CC	0.001 UF 50V B
C2847	CS0UB0N15K	CC	0.1 UF 10V B	C3019	CS0UB0214K	CC	0.01 UF 16V B
C2848	CS0RB0PH7M	CC	22 UF 6.3V B	C3021	CS0RB0N17K	CC	10 UF 10V B
C2849	CS0UB0N15K	CC	0.1 UF 10V B	C3023	CS0UB0NH5K	CC	0.22 UF 10V B
C2850	CS0UB0N15K	CC	0.1 UF 10V B	C3024	CS0UB0214K	CC	0.01 UF 16V B
C2854	CS0PB0315K	CC	0.1 UF 25V B	C3025	CS0RB0N17K	CC	10 UF 10V B
C2855	CS0UB0N15K	CC	0.1 UF 10V B	C3027	CS0UB0315K	CC	0.1 UF 25V B
C2856	CS0UB0N15K	CC	0.1 UF 10V B	C3028	CS0RB0N17K	CC	10 UF 10V B
C2857	CS0UB0N15K	CC	0.1 UF 10V B	C3029	CS0RB0N17K	CC	10 UF 10V B
C2858	CS0UB0N15K	CC	0.1 UF 10V B	C3030	CS0UB0315K	CC	0.1 UF 25V B
C2859	CS0UB0N15K	CC	0.1 UF 10V B	C3031	CS0UB04H3K	CC	0.0022UF 50V B
C2860	CS0RB0N17K	CC	10 UF 10V B	C3032	CS0UB04H3K	CC	0.0022UF 50V B
C2861	CS0UB0N15K	CC	0.1 UF 10V B	C3035	CS0RB0PH7M	CC	22 UF 6.3V B
C2862	CS0UB0N15K	CC	0.1 UF 10V B	C3036	CS0RB0PH7M	CC	22 UF 6.3V B
C2863	CS0UB0N15K	CC	0.1 UF 10V B	C3039	CS0RB0PH7M	CC	22 UF 6.3V B
C2864	CS0UB0N16K	CC	1 UF 10V B	C3040	CS0RB0N17K	CC	10 UF 10V B
C2865	CS0UB0N15K	CC	0.1 UF 10V B	C3041	CS0UB0N16K	CC	1 UF 10V B
C2866	CS0UB0N15K	CC	0.1 UF 10V B	C3045	CS0RB0PH7M	CC	22 UF 6.3V B
C2867	CS0UB0N15K	CC	0.1 UF 10V B	C3064	CS0PB0PQ6K	CC	4.7 UF 6.3V B
C2868	CS0UB0N15K	CC	0.1 UF 10V B	C3065	CS0RB02Q6K	CC	4.7 UF 16V B
C2869	CS0UB0N15K	CC	0.1 UF 10V B	C3085	CS0PB0N16K	CC	1 UF 10V B

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
CAPACITORS				CAPACITORS			
C3086	CS0RB0N17K	CC	10 UF 10V B	C4038	CS0UB0N15K	CC	0.1 UF 10V B
C3090	CS0UB0N15K	CC	0.1 UF 10V B	C4043	CS0UB0314K	CC	0.01 UF 25V B
C3093	CS0RB0N17K	CC	10 UF 10V B	C4044	E72BM0220M	CE	22 UF 6.3V
C3094	CS0PB0N16K	CC	1 UF 10V B	C4045	CS0UB03U3K	CC	0.0068UF 25V B
C3601	CS0UB0N15K	CC	0.1 UF 10V B	C4047	E72BM0101M	CE	100 UF 6.3V
C3602	CS0UB0N15K	CC	0.1 UF 10V B	C4048	CS0UB0N15K	CC	0.1 UF 10V B
C3603	CS0UB0N15K	CC	0.1 UF 10V B	C4049	CS0UB0N15K	CC	0.1 UF 10V B
C3604	CS0UB0N15K	CC	0.1 UF 10V B	C4050	E72BM0101M	CE	100 UF 6.3V
C3605	CS0UB0N15K	CC	0.1 UF 10V B	C4051	E72BM0101M	CE	100 UF 6.3V
C3607	CS0UB0N15K	CC	0.1 UF 10V B	C4052	CS0UB0N15K	CC	0.1 UF 10V B
C3608	CS0RB0P17K	CC	10 UF 6.3V B	C4053	CS0UB0314K	CC	0.01 UF 25V B
C3610	CS0UB04Q3K	CC	0.0047UF 50V B	C4054	CS0UB0314K	CC	0.01 UF 25V B
C3611	CS0PB0NH6K	CC	2.2 UF 10V B	C4055	CS0UB0N15K	CC	0.1 UF 10V B
C3612	CS0UB04H3K	CC	0.0022UF 50V B	C4056	E72BM0101M	CE	100 UF 6.3V
C3613	CS0UB0214K	CC	0.01 UF 16V B	C4057	CS0UB0413K	CC	0.001 UF 50V B
C3801	CS0PB0316K	CC	1 UF 25V B	C4058	CS0UB0N15K	CC	0.1 UF 10V B
C3802	CS0RB04Q5K	CC	0.47 UF 50V B	C4059	CS0UB04E3K	CC	0.0015UF 50V B
C3803	CS0RB0416K	CC	1 UF 50V B	C4060	CS0UB0413K	CC	0.001 UF 50V B
C3804	CS0PB0413K	CC	0.001 UF 50V B	C4062	CS0UB0N15K	CC	0.1 UF 10V B
△ C3805	E718HC391D	CE	390 UF 200V	C4063	CS0UB0N15K	CC	0.1 UF 10V B
C3806	CS0PB0415K	CC	0.1 UF 50V B	C4064	CS0UB0N15K	CC	0.1 UF 10V B
C3807	CS0PB04H3K	CC	0.0022UF 50V B	C4066	CS0UB0P16K	CC	1 UF 6.3V B
△ C3808	P4K12D334K	CMPP	0.33 UF 310V	C4071	CS0UB0413K	CC	0.001 UF 50V B
△ C3809	CE39E0M13M	CC	0.001 UF 250V E	C4073	CS0UB0N15K	CC	0.1 UF 10V B
C3810	CS0PB03H5K	CC	0.22 UF 25V B	C4074	CS0UB0N15K	CC	0.1 UF 10V B
△ C3811	CE39E0M13M	CC	0.001 UF 250V E	C4088	CS0UCH4H2J	CC	220 PF 50V CH
△ C3812	C234SL6E1J	CC	15 PF 1KV SL	C4089	CS0UB03E4K	CC	0.015 UF 25V B
△ C3813	P4K10D224K	CMPP	0.22 UF 310V LE-MX	C4090	CS0UB0N15K	CC	0.1 UF 10V B
C3814	CS0PB0414K	CC	0.01 UF 50V B	C4101	CS0UCH4L2J	CC	330 PF 50V CH
C3815	CS3RB03H6K	CC	2.2 UF 25V B	C4102	CS0UCH4L2J	CC	330 PF 50V CH
C3817	CS0PB0415K	CC	0.1 UF 50V B	C4122	CS0UCH412J	CC	100 PF 50V CH
C3818	CS0PB0413K	CC	0.001 UF 50V B	C4123	CS0UCH412J	CC	100 PF 50V CH
C3819	E8E2U5100D	CE	10 UF 50V	C4200	CS0UCH412J	CC	100 PF 50V CH
C3820	E8E2U5100D	CE	10 UF 50V	C4201	CS0UB0N15K	CC	0.1 UF 10V B
C3821	E8E2U5100D	CE	10 UF 50V	C4202	CS0UB0N15K	CC	0.1 UF 10V B
C3822	CS0RB0416K	CC	1 UF 50V B	C4212	CS0UB0215K	CC	0.1 UF 16V B
△ C3823	E7EYT1102M	CE	1000 UF 10V	C4217	CS0UB0N15K	CC	0.1 UF 10V B
C3824	CS0PB0414K	CC	0.01 UF 50V B	C4219	CS0UCH412J	CC	100 PF 50V CH
△ C3825	E8E6FC470M	CE	47 UF 200V	C4220	CS0UB0N15K	CC	0.1 UF 10V B
C3826	CS0PB0315K	CC	0.1 UF 25V B	C4221	CS0UB0N16K	CC	1 UF 10V B
C3827	CS3RB03H6K	CC	2.2 UF 25V B	C4222	CS0UB0N15K	CC	0.1 UF 10V B
C3828	CS3RB0316K	CC	1 UF 25V B	C4223	CS0UCH412J	CC	100 PF 50V CH
C3830	CS0PB0415K	CC	0.1 UF 50V B	C4224	CS0UCH4Q1J	CC	47 PF 50V CH
C3831	CS0PB04H4K	CC	0.022 UF 50V B	C4229	CS0RB0N17K	CC	10 UF 10V B
C3832	C0340R613K	CC	0.001 UF 1KV R	C4235	CS0UCH4Q1J	CC	47 PF 50V CH
C3833	C0340R613K	CC	0.001 UF 1KV R	C4236	CS0UCH4Q1J	CC	47 PF 50V CH
C3834	CS0PB0414K	CC	0.01 UF 50V B	C4237	CS0UCH4Q1J	CC	47 PF 50V CH
C3835	E7EYU1221M	CE	220 UF 10V	C4241	CS0UCH4Q1J	CC	47 PF 50V CH
C3837	P4NBE5104H	CMPP	0.1 UF 630V FGSM	C4242	CS0UCH412J	CC	100 PF 50V CH
△ C3840	CE39E0MH2K	CC	220 PF 250V E	C4243	CS0UCH412J	CC	100 PF 50V CH
C3841	E8E2U5470D	CE	47 UF 50V	C4249	CS0UCH412J	CC	100 PF 50V CH
△ C3843	CE39E0MH2K	CC	220 PF 250V E	C4250	CS0UCH412J	CC	100 PF 50V CH
C3844	CS0PB0315K	CC	0.1 UF 25V B	C4251	CS0RB0N17K	CC	10 UF 10V B
C3845	CS0PCH412J	CC	100 PF 50V CH	C4252	CS0RB0N17K	CC	10 UF 10V B
C3846	CS0PB0415K	CC	0.1 UF 50V B	C4253	CS0RB0N17K	CC	10 UF 10V B
C3847	CS0PB0315K	CC	0.1 UF 25V B	C4255	CS0RB0216K	CC	1 UF 16V B
△ C3848	E9E8T2471M	CE	470 UF 16V	C4256	E70QU2470M	CE	47 UF 16V
△ C3849	E8E1T3471M	CE	470 UF 25V	C4257	CS0RB0216K	CC	1 UF 16V B
△ C3851	E7EYF4471M	CE	470 UF 35V	C4258	E70QU2470M	CE	47 UF 16V
C3853	E8E103182M	CE	1800 UF 25V	C4262	CS0PB0N16K	CC	1 UF 10V B
C3856	C0PLRR7H2K	CC	220 PF 2KV R	C5801	CS0RB0N17K	CC	10 UF 10V B
C4001	CS0UB0N15K	CC	0.1 UF 10V B	C5802	CS0RB0N17K	CC	10 UF 10V B
C4003	CS0UB0N15K	CC	0.1 UF 10V B	C5803	CS0UB0413K	CC	0.001 UF 50V B
C4005	CS0UB0N15K	CC	0.1 UF 10V B	C5804	CS0RB0N17K	CC	10 UF 10V B
C4006	CS0UB0P16K	CC	1 UF 6.3V B	C5805	CS0RB0N17K	CC	10 UF 10V B
C4007	CS0UB0N15K	CC	0.1 UF 10V B	C5810	CS0UB0215K	CC	0.1 UF 16V B
C4008	CS0UB0N15K	CC	0.1 UF 10V B	C5812	CS0UB0413K	CC	0.001 UF 50V B
C4012	CS0UCH412J	CC	100 PF 50V CH	C5814	CS0UB0215K	CC	0.1 UF 16V B
C4015	E72BM0101M	CE	100 UF 6.3V	C5815	CS0UB0N16K	CC	1 UF 10V B
C4016	E72BM0101M	CE	100 UF 6.3V	C5817	CS0UB0N16K	CC	1 UF 10V B
C4019	CS0RB0PQ6K	CC	4.7 UF 6.3V B	C5822	CS0UB0N16K	CC	1 UF 10V B
C4020	CS0UB0N15K	CC	0.1 UF 10V B	C5823	CS0UB0N16K	CC	1 UF 10V B
C4023	CS0UB0N15K	CC	0.1 UF 10V B	C5827	CS0UB0N16K	CC	1 UF 10V B
C4029	CS0UB0N15K	CC	0.1 UF 10V B	C5828	CS0PCK410C	CC	1 PF 50V CK
C4033	CS0UCH4K1J	CC	27 PF 50V CH	C5830	CS0UB0N16K	CC	1 UF 10V B
C4036	CS0UB0N15K	CC	0.1 UF 10V B	C5832	CS0UB0215K	CC	0.1 UF 16V B
C4037	CS0UCH4K1J	CC	27 PF 50V CH	C5844	CS0UB0214K	CC	0.01 UF 16V B

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
CAPACITORS				CAPACITORS			
C5846	CS0UB0215K	CC	0.1 UF 16V B	C8533	CS0RB0N17K	CC	10 UF 10V B
C5848	CS0UB04Q3K	CC	0.0047UF 50V B	C8534	CS0UCH412J	CC	100 PF 50V CH
C5849	CS0UB04Q3K	CC	0.0047UF 50V B	C8536	CS0UB0315K	CC	0.1 UF 25V B
C6201	CS0UB0215K	CC	0.1 UF 16V B	C8539	CS0UB0315K	CC	0.1 UF 25V B
C6202	CS0UB0215K	CC	0.1 UF 16V B	C8540	CS0RB0PQ6K	CC	4.7 UF 6.3V B
C6210	CS0UB0P14K	CC	0.01 UF 6.3V B	DIODES			
C6211	CS0UB03H4K	CC	0.022 UF 25V B	D2201	0021E9Q010	LED	LTL-1BEFJ-002A
C6213	CS0PB0N16K	CC	1 UF 10V B	D2301	DD1R0100L0	DIODE SILICON	DA2J10100L
C6509	CS0UB0N16K	CC	1 UF 10V B	D2302	DD1R0100L0	DIODE SILICON	DA2J10100L
C7004	CS0PB0414K	CC	0.01 UF 50V B	D2801	D61R0V8001	DIODE VARISTA	EZJZ0V80010
C7005	CS0PB04Q3K	CC	0.0047UF 50V B	D3002	D27RB056L0	DIODE SCHOTTKY	RB056L-40TE25
C7006	CS0PB0NH6K	CC	2.2 UF 10V B	D3003	D27RB056L0	DIODE SCHOTTKY	RB056L-40TE25
C7007	CS0PB0414K	CC	0.01 UF 50V B	D3007	D27RB056L0	DIODE SCHOTTKY	RB056L-40TE25
C7008	CS0PB0415K	CC	0.1 UF 50V B	D3010	DD1R0100L0	DIODE SILICON	DA2J10100L
C7009	CS0PB03H5K	CC	0.22 UF 25V B	D3011	DD7R0S3550	DIODE SILICON	1SS355 TE-17
C7010	CS0PB04Q3K	CC	0.0047UF 50V B	D3617	DD1R0100L0	DIODE SILICON	DA2J10100L
C7011	CS0PB04Q3K	CC	0.0047UF 50V B	D3619	DD1R0100L0	DIODE SILICON	DA2J10100L
C7012	CS0PB03H5K	CC	0.22 UF 25V B	D3628	DD1R0100L0	DIODE SILICON	DA2J10100L
C7013	CS0PCH4H2J	CC	220 PF 50V CH	△ D3803	D2Z05SB800	DIODE, BRIDGE	D5SB80
C7014	CS0PB0414K	CC	0.01 UF 50V B	△ D3804	D7KE101720	DIODE VARISTA	S10K175E2S5M4
C7015	CS0PB0N16K	CC	1 UF 10V B	D3805	DJBUA30012	DIODE ZENER	HZS30NB2
C7016	CS0PB0414K	CC	0.01 UF 50V B	△ D3807	D4CTN40060	DIODE SILICON	1N4006-A5
C7017	CS0PB0414K	CC	0.01 UF 50V B	△ D3808	D4CTN40060	DIODE SILICON	1N4006-A5
C7018	CS0PB03Q4K	CC	0.047 UF 25V B	D3809	D27RB056L0	DIODE SCHOTTKY	RB056L-40TE25
C7019	CS0PB0315K	CC	0.1 UF 25V B	D3810	D4CT01H6A0	DIODE RECTIFIER	1H6-A2
C7020	E7EYF4102M	CE	1000 UF 35V	△ D3811	D4CTN40060	DIODE SILICON	1N4006-A5
C7021	CS0PB0413K	CC	0.001 UF 50V B	D3812	DE7RB1502B	DIODE ZENER	UDZSNP15B TE-17
C7022	CS0PB0415K	CC	0.1 UF 50V B	D3813	DJBUA15012	DIODE ZENER	HZS15NB2
C7027	CS0PCH4H2J	CC	220 PF 50V CH	D3814	D27RB056L0	DIODE SCHOTTKY	RB056L-40TE25
C7028	CS0PCH4H2J	CC	220 PF 50V CH	D3815	DJBUA30012	DIODE ZENER	HZS30NB2
C7029	CS0PCH4H2J	CC	220 PF 50V CH	D3816	DJBUA33012	DIODE ZENER	HZS33NB2
C7031	CS0PCH4H2J	CC	220 PF 50V CH	△ D3817	DK1T2D1400	POWER CLAMPER	ST02D-140
C7032	CS0PCH4H2J	CC	220 PF 50V CH	△ D3818	D4JX001F50	DIODE SILICON	1F5
C7033	CS0PCH4H2J	CC	220 PF 50V CH	△ D3819	D2AA045CT0	DIODE SCHOTTKY BARRIER	MBRF1045CT
C7034	CS0PCH4H2J	CC	220 PF 50V CH	D3820	D4JX001F50	DIODE SILICON	1F5
C7035	CS0SB0417M	CC	10 UF 50V B	△ D3821	D28A10A061	DIODE SCHOTTKY BARRIER	FCQS10A065
C7036	CS0SB0417M	CC	10 UF 50V B	△ D3822	D28A10A080	DIODE SCHOTTKY BARRIER	FCHS10A08
C7046	CS0SB0417M	CC	10 UF 50V B	△ D3823	DGERMA1110	DIODE SILICON	MA111-(TX)
C7047	CS0SB0417M	CC	10 UF 50V B	△ D3824	D2AA045CT0	DIODE SCHOTTKY BARRIER	MBRF1045CT
C7049	CRGTB0413K	CC	0.001 UF 50V B	D3825	DE7RB8R22B	DIODE ZENER	UDZSNP8.2B TE-17
C7050	CRGTB0413K	CC	0.001 UF 50V B	D3826	DJBUA30012	DIODE ZENER	HZS30NB2
C7051	CRGTB0413K	CC	0.001 UF 50V B	D4001	DD1R0100L0	DIODE SILICON	DA2J10100L
C7052	CRGTB0413K	CC	0.001 UF 50V B	D5801	D61R0V8001	DIODE VARISTA	EZJZ0V80010
C7053	CRGTB0413K	CC	0.001 UF 50V B	D6206	DGERMA1110	DIODE SILICON	MA111-(TX)
C7054	CRGTB0413K	CC	0.001 UF 50V B	D7001	DD1R0100L0	DIODE SILICON	DA2J10100L
C7055	CRGTB0413K	CC	0.001 UF 50V B	D7002	DD1R0100L0	DIODE SILICON	DA2J10100L
C7056	CRGTB0413K	CC	0.001 UF 50V B	D7003	D1VT001330	DIODE, SILICON	1SS133T-77
C7057	C234SLB11J	CC	10 PF 6KV SL	D7004	D1VT001330	DIODE, SILICON	1SS133T-77
C7058	C234SLB11J	CC	10 PF 6KV SL	D7005	D1VT001330	DIODE, SILICON	1SS133T-77
C7059	C234SLB11J	CC	10 PF 6KV SL	D7006	D1VT001330	DIODE, SILICON	1SS133T-77
C7060	C234SLB11J	CC	10 PF 6KV SL	D7007	D1VT001330	DIODE, SILICON	1SS133T-77
C7061	C234SLB11J	CC	10 PF 6KV SL	D7008	D1VT001330	DIODE, SILICON	1SS133T-77
C7062	C234SLB11J	CC	10 PF 6KV SL	D7009	D1VT001330	DIODE, SILICON	1SS133T-77
C7063	C234SLB11J	CC	10 PF 6KV SL	D7010	D1VT001330	DIODE, SILICON	1SS133T-77
C7064	C234SLB11J	CC	10 PF 6KV SL	D7013	DD1R0100L0	DIODE SILICON	DA2J10100L
C8056	CS0UCH4S2J	CC	560 PF 50V CH	D7014	DD1R0100L0	DIODE SILICON	DA2J10100L
C8501	CS0RB0PQ6K	CC	4.7 UF 6.3V B	D7015	DD1R0100L0	DIODE SILICON	DA2J10100L
C8504	CS0UCH412J	CC	100 PF 50V CH	D7017	DD1R0100L0	DIODE SILICON	DA2J10100L
C8507	CS0UCH4S2J	CC	560 PF 50V CH	D7018	DD1R0100L0	DIODE SILICON	DA2J10100L
C8511	CS0UB0N15K	CC	0.1 UF 10V B	D7019	DD1R0100L0	DIODE SILICON	DA2J10100L
C8512	CS0UB0N15K	CC	0.1 UF 10V B	D7020	DD1R0100L0	DIODE SILICON	DA2J10100L
C8513	E72BM2100M	CE	10 UF 16V	D7021	D1VT001330	DIODE, SILICON	1SS133T-77
C8514	CS0UCH412J	CC	100 PF 50V CH	D7022	D1VT001330	DIODE, SILICON	1SS133T-77
C8516	CS0UCH412J	CC	100 PF 50V CH	D7023	D1VT001330	DIODE, SILICON	1SS133T-77
C8517	CS0UCH4U1J	CC	68 PF 50V CH	D7024	D1VT001330	DIODE, SILICON	1SS133T-77
C8518	CS0UCH4U1J	CC	68 PF 50V CH	D7025	D1VT001330	DIODE, SILICON	1SS133T-77
C8519	E72BM2100M	CE	10 UF 16V	D7026	D1VT001330	DIODE, SILICON	1SS133T-77
C8520	CS0UB0314K	CC	0.01 UF 25V B	D7027	D1VT001330	DIODE, SILICON	1SS133T-77
C8521	CS0RB0N17K	CC	10 UF 10V B	D7028	D1VT001330	DIODE, SILICON	1SS133T-77
C8522	CS0RB0N17K	CC	10 UF 10V B	D7029	D1VT001330	DIODE, SILICON	1SS133T-77
C8523	CS0RB0N17K	CC	10 UF 10V B	D7030	D1VT001330	DIODE, SILICON	1SS133T-77
C8524	CS0UCH412J	CC	100 PF 50V CH	D7031	D1VT001330	DIODE, SILICON	1SS133T-77
C8525	CS0UCH412J	CC	100 PF 50V CH	D7032	D1VT001330	DIODE, SILICON	1SS133T-77
C8529	CS0UB0314K	CC	0.01 UF 25V B	D7033	D1VT001330	DIODE, SILICON	1SS133T-77
C8530	CS0UB0314K	CC	0.01 UF 25V B	D7034	D1VT001330	DIODE, SILICON	1SS133T-77
C8531	CS0UB0414K	CC	0.01 UF 50V B	D7035	D1VT001330	DIODE, SILICON	1SS133T-77
C8532	CS0UB0N15K	CC	0.1 UF 10V B	D7036	D1VT001330	DIODE, SILICON	1SS133T-77

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
DIODES				TRANSISTORS			
D8501	DEBRB5R1B2	DIODE ZENER	RKZ5.1B2KG	Q6204	TPRAC05003	COMPOUND TRANSISTOR	RT1P241C-T112-1
D8502	D28R11FS40	DIODE SCHOTTKY	EC11FS4-TE12L	Q6205	TNRAB05004	COMPOUND TRANSISTOR	RT1N141C-T112-1
D8503	D28R11FS40	DIODE SCHOTTKY	EC11FS4-TE12L	Q7001	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
ICS				Q7002	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
△ IC301	I0WFP13TR0	SOUND AMP 2*20W	STA333W13TR	△ Q7003	T2W0037020	FET	2SK3702JS
△ IC2301	I1UFV5888S	5CH MOTOR DRIVER IC	SA5888TR	△ Q7004	T2W0037020	FET	2SK3702JS
IC2801	I56M069830	SCALER C8	R8A66983BG-U0	△ Q7005	T2W0037020	FET	2SK3702JS
IC2802	IG2J08B16E	512M BIT(32M*16)DDRII SDRAM	EM68B16CWPA-25H	△ Q7006	T2W0037020	FET	2SK3702JS
IC2803	S57Q01WE01	MEMORY DATA EEPROM SOP8 32K	FT24C32A-USR-T	Q8503	TJ5AJ325F0	FET	SSM3J325F
IC2804	----	MEMORY DATA 32M BIT FLASH TSOP8	EN25Q32B-104HIP	Q8504	TNRAC05003	COMPOUND TRANSISTOR	RT1N241C-T112-1
IC2805	I1JN062050	500MA HIGH SIDE SW	MP6205DD-LF-Z	Q8506	T27T035410	FET	2SK3541_T2L
IC2806	I55J0052A0	DUAL 4CH ANALOG MULTIPLEXER	TC74VHC4052AFTELKM	Q8507	T27T035410	FET	2SK3541_T2L
△ IC3001	ILNJ982BH0	REGULATOR 3.3V1.2V	RT8282BHGSP	Q8508	TJ5AJ325F0	FET	SSM3J325F
△ IC3002	I1ZF9110D0	VO=11V REG	R1190H110D-T1-F	Q8509	TNRAC05003	COMPOUND TRANSISTOR	RT1N241C-T112-1
△ IC3003	ILNJ990250	REGULATOR 1.8V	RT9025-18GSP	Q8510	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
△ IC3004	I1ZF9K5010	REGULATOR 5.0V	RP131K501D-TR	△ Q8511	TAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P
△ IC3005	I1ZF9K3310	REGULATOR 3.3V	RP131K331D-TR	Q8512	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
△ IC3006	ILNJ982BH0	REGULATOR 3.3V1.2V	RT8282BHGSP	COILS & TRANSFORMERS			
△ IC3009	I1ZF9121D0	REGULATOR 1.2V	RP131H121D-T1-F	L300	02167E220K	COIL	22 UH
IC3601	ILUK066330	HDMI SW	IT6633E-P	L301	02167E220K	COIL	22 UH
△ IC3801	I1KJ9A431A	VARIABLE SHUNT REGULATOR TAPE	KIA431A-AT	L302	02167E220K	COIL	22 UH
△ IC3802	I16D052030	CURRENT RESONANT CTL IC	MCZ5203NA-7101	L303	02167E220K	COIL	22 UH
△ IC3803	I5SD0P2M40	VDSS=700V F=67KHZ	MIP2M40MSSCF	L2801	02DA000124	COIL CHOKE	DLP11SN900HL2L
△ IC3804	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)	L3001	021AMF6R8P	COIL	6.8 UH
△ IC3805	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)	L3002	021AMF3R3P	COIL	3.3 UH
△ IC3806	I1KJ9A431A	VARIABLE SHUNT REGULATOR TAPE	KIA431A-AT	L3601	02D1000119	COIL CHOKE	EXC28CG900U
△ IC3809	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)	L3602	02D1000119	COIL CHOKE	EXC28CG900U
IC4001	IC8K0389K0	DVD MPEG 128PIN MEDIATEK	MT1389QE/K-L	L3603	02D1000119	COIL CHOKE	EXC28CG900U
IC4004	-----	MEMORY DATA FLASH ROM(8M) EN25Q80A-100HI	EN25Q80A-100HIP	L3604	02D1000119	COIL CHOKE	EXC28CG900U
IC4005	IG2J08165G	SDRAM(64M)EM638165TS-6G(70NM)	EM638165TS-6G(70NM)	△ L3801	029B000186	COIL,LINE FILTER	JLB28121
IC4201	IC7C9292A0	RESET IC 2.9V DELAY NCH SC-88	R3112Q292A-TR-FE	L3803	02167E100K	COIL	10 UH
IC4202	IC7C9292A0	RESET IC 2.9V DELAY NCH SC-88	R3112Q292A-TR-FE	L5807	021AML5N6E	COIL	0.0056UH
△ IC5801	I1ZF9K3310	REGULATOR 3.3V	RP131K331D-TR	L5808	021AMK3N6C	COIL	0.0036UH
△ IC5802	I1ZF9K1810	REGULATOR 1.8V	RP131K181D-TR	L5809	021AML33NJ	COIL	0.033 UH
IC5803	ILVN003010	WW RF SI-TUNER	MXL301RF	L5810	021AMLR12J	COIL	0.12 UH
IC6201	IC7C0292C0	RESET IC 2.9V CMOSL "SC-88A"	R3111Q292C-TR-FE	L8501	021ES11R8K	COIL	1.8 UH
IC6502	I55F0A53FU	A/V SW 2IN 1OUT	TC7PA53FU(T5L,F,T)	△ T3801	048728001H	TRANSFORMER,SWITCHING	8728001H
△ IC7001	I1EF099720	26WLCD INVERTER CONTROL IC	OZ9972ASN-A1-2-TR	△ T3802	0481190201	TRANSFORMER,SWITCHING	81190201
IC8501	IL4J045580	AUDIO OPE-AMP SOP8	AZ4558C	△ T7001	0481330231	TRANSFORMER,SWITCHING	ETJV23ZG35AC
△ IC8502	I1ZF981D50	REGULATOR 1.8V	RP131H181D5-T1-F	△ T7002	0481330231	TRANSFORMER,SWITCHING	ETJV23ZG35AC
△ IC8503	I1ZF9331D0	REGULATOR 3.3V	RP131H331D-T1-F	△ T7003	0481330231	TRANSFORMER,SWITCHING	ETJV23ZG35AC
TRANSISTORS				△ T7004	0481330231	TRANSFORMER,SWITCHING	ETJV23ZG35AC
Q2301	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	JACKS			
Q2302	TAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P	△ J3801	064Q1A0017	JACK,AC	CCT2302-0973FC
Q2303	TAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P	J4200	060K421056	RCA JACK	AV-5A-66H
Q2304	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	J4201	060K401144	RCA JACK	AV-4B-75H
Q2305	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	J4202	060K421058	RCA JACK	AV-5A-68H
Q2801	TNRAC05003	COMPOUND TRANSISTOR	RT1N241C-T112-1	J4203	060K421057	RCA JACK	AV-5A-67H
Q2802	TNRAC05003	COMPOUND TRANSISTOR	RT1N241C-T112-1	J4204	060K481001	RCA JACK	AV3-6B-15H
Q2808	TJ5A104TU0	FET	SSM3K104TU(T5L,T)	J4205	060K431043	RCA JACK	AV3-6D-14H
Q3003	TNRAB05004	COMPOUND TRANSISTOR	RT1N141C-T112-1	J4206	060K411059	RCA JACK	AV2-6B-08Z
△ Q3008	TJ5MC61100	FET	TPC6110(TE85L,F,M)	J4302	060K131027	HEADPHONE JACK	CKX-035-349ABZ1
Q3608	TJRA12AU10	FET	INK0012AU1	J5801	06K6910002	CONNECTOR PCB SIDE	FG-01-1
Q3609	TJRA12AU10	FET	INK0012AU1	SWITCHES			
△ Q3801	TAAT01281Y	TRANSISTOR SILICON	KTA1281_Y	SW2201	0504101T34	SWITCH,TACT	EVQ21505R
Q3802	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	SW2202	0504101T34	SWITCH,TACT	EVQ21505R
Q3803	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	SW2203	0504101T34	SWITCH,TACT	EVQ21505R
Q3804	TAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK	SW2204	0504101T34	SWITCH,TACT	EVQ21505R
△ Q3805	TJX06NF250	FET	STF16NF25	SW2205	0504101T34	SWITCH,TACT	EVQ21505R
△ Q3806	TJX06NF250	FET	STF16NF25	SW2206	0504101T34	SWITCH,TACT	EVQ21505R
Q3807	T27T030190	FET	2SK3019_TL	SW2207	0504101T34	SWITCH,TACT	EVQ21505R
Q4200	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	SW2208	0504101T34	SWITCH,TACT	EVQ21505R
Q4201	TPRAC05003	COMPOUND TRANSISTOR	RT1P241C-T112-1	P.C BOARD ASSEMBLIES			
Q4202	T8RA030520	TRANSISTOR SILICON	2SC3052-T1	PCB130	A57Q01W130	DVD MT PCB ASS'Y	DMK135A
Q4203	TJRA12AU10	FET	INK0012AU1	PCB240	A57Q01W240	POWER PCB ASS'Y	CEK671A
Q4204	TJRA12AU10	FET	INK0012AU1	PCB270	A57Q01W270	OPERATION PCB ASS'Y	CEK672A
Q4205	TNRAB05004	COMPOUND TRANSISTOR	RT1N141C-T112-1	PCBDA0	A57Q01WDA0	REMOCON PCB ASS'Y	CEK673A
Q4206	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	PCBF40	A57Q01WF40	MAIN PCB ASS'Y	CML222A
Q4207	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	MISCELLANEOUS			
Q4208	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	B300	024HC51216	CORE,BEADS	HCB1608KF-121T20
Q4209	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	B301	024HC51216	CORE,BEADS	HCB1608KF-121T20
Q4210	TPAAA05001	COMPOUND TRANSISTOR	KRA101SRTK	B302	024HC13914	CORE,BEADS	HCB3216KF-391T20
Q4211	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	B303	024HC13914	CORE,BEADS	HCB3216KF-391T20
Q4212	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	B304	024HC13914	CORE,BEADS	HCB3216KF-391T20
Q4302	TJRA12AU10	FET	INK0012AU1	B305	024HC13914	CORE,BEADS	HCB3216KF-391T20
Q4303	TJRA12AU10	FET	INK0012AU1	B308	024HC51023	CORE,BEADS	FCM1608KF-102T02
Q6203	TPRAC05003	COMPOUND TRANSISTOR	RT1P241C-T112-1	B309	024HC51023	CORE,BEADS	FCM1608KF-102T02

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
MISCELLANEOUS			MISCELLANEOUS		
B310	024HC51023	CORE,BEADS	FCM1608KF-102T02	CP7001	06GRW20019 CONNECTOR PCB SIDE
B311	024HC51023	CORE,BEADS	FCM1608KF-102T02	CP7002	06GRW20019 CONNECTOR PCB SIDE
B2305	024HC56013	CORE,BEADS	FCM1608KF-601T02	CP7003	06GRW20019 CONNECTOR PCB SIDE
B2306	024HC56013	CORE,BEADS	FCM1608KF-601T02	CP7004	06GRW20019 CONNECTOR PCB SIDE
B2800	024HC51216	CORE,BEADS	HCB1608KF-121T20	CP8501	06G6YOT019 CONNECTOR PCB SIDE
B2801	024NC52211	CORE,BEADS	EBMS160808A221 0.6A	CP8502	06GG260019 CONNECTOR PCB SIDE
B2802	024HC52213	CORE,BEADS	FCM1608KF-221T05	EL2401	124116281A EYE LET
B2803	024AC3600P	CORE,BEADS	BLM21PG600SN1D	EL2402	124120301A EYE LET
B2805	024HC51816	CORE,BEADS	HCB1608KF-181T20	△ F3801	0805A06303 FUSE
B2806	024HC52216	CORE,BEADS	HCB1608KF-221T20	△ F3807	0835A07005 MICRO FUSE
B2807	024HC52216	CORE,BEADS	HCB1608KF-221T20	NR2800	110P4330M5 R,NETWORK
B2808	024HC52216	CORE,BEADS	HCB1608KF-221T20	NR2801	110P4330M5 R,NETWORK
B2809	024HC52216	CORE,BEADS	HCB1608KF-221T20	NR2802	110P4330M5 R,NETWORK
B2810	024HC52216	CORE,BEADS	HCB1608KF-221T20	NR2803	110P4330M5 R,NETWORK
B2811	024HC52216	CORE,BEADS	HCB1608KF-221T20	NR2804	110P4220M5 R,NETWORK
B2812	024HC52216	CORE,BEADS	HCB1608KF-221T20	NR2805	110P4220M5 R,NETWORK
B2813	024HC52216	CORE,BEADS	HCB1608KF-221T20	NR2809	11074223M7 R,NETWORK
B2815	024HC51216	CORE,BEADS	HCB1608KF-121T20	NR2810	11074223M7 R,NETWORK
B3004	024BC5121J	CORE,BEADS	BLM18PG121SN1D	NR2811	11074223M7 R,NETWORK
B3008	024HC51216	CORE,BEADS	HCB1608KF-121T20	NR2813	11074223M7 R,NETWORK
B3010	024HC51816	CORE,BEADS	HCB1608KF-181T20	NR2814	110P4330M5 R,NETWORK
B3011	024HC51816	CORE,BEADS	HCB1608KF-181T20	NR4002	11074330M7 R,NETWORK
B3012	024HC51816	CORE,BEADS	HCB1608KF-181T20	OS7601	077Q038009 REMOTE RECEIVER
B3015	024HC51816	CORE,BEADS	HCB1608KF-181T20	△ SP301	070Y056012 SPEAKER
B3020	024HC51816	CORE,BEADS	HCB1608KF-181T20	△ SP302	070Y056012 SPEAKER
B3601	024HC52216	CORE,BEADS	HCB1608KF-221T20	SH3001	126D000044 TERMINAL PIN
B3801	024AC1121G	CORE,BEADS	BLM31PG121SN1L	SH3002	126D000044 TERMINAL PIN
B3802	024HT03553	CORE,BEADS	W5RH3.5X5X1.0	SH3003	126D000044 TERMINAL PIN
B4003	024HC51023	CORE,BEADS	FCM1608KF-102T02	SH3004	126D000044 TERMINAL PIN
B4007	024AC5221F	CORE,BEADS	BLM18BD221SN1D	SH3005	126D000044 TERMINAL PIN
B4008	024HC51023	CORE,BEADS	FCM1608KF-102T02	SH3006	126D000044 TERMINAL PIN
B4010	024HC51023	CORE,BEADS	FCM1608KF-102T02	SH3801	126D000044 TERMINAL PIN
B4012	024HC51023	CORE,BEADS	FCM1608KF-102T02	SH3802	126D000044 TERMINAL PIN
B4202	024HC51023	CORE,BEADS	FCM1608KF-102T02	SH3803	126D000044 TERMINAL PIN
B4203	024HC51023	CORE,BEADS	FCM1608KF-102T02	SH3804	126D000044 TERMINAL PIN
B4205	024HC51216	CORE,BEADS	HCB1608KF-121T20	TM101	076R0SC011 TRANSMITTER
B5802	024HC51216	CORE,BEADS	HCB1608KF-121T20	△ TH3801	DSVEHE4R7M THERMISTOR
B5803	024HC51216	CORE,BEADS	HCB1608KF-121T20	△ V2801	A57Q01W360 LCD MODULE ASS'Y
B5804	024HC51216	CORE,BEADS	HCB1608KF-121T20	X2801	100JT02513 CRYSTAL
B5805	024HC51216	CORE,BEADS	HCB1608KF-121T20	X4001	100GT02727 CRYSTAL
B5806	024HC51216	CORE,BEADS	HCB1608KF-121T20	X5801	100DT02425 CRYSTAL
B5808	024HC51216	CORE,BEADS	HCB1608KF-121T20		
B5809	024HC51216	CORE,BEADS	HCB1608KF-121T20		
B6201	024HC51216	CORE,BEADS	HCB1608KF-121T20		
B6202	024HC51216	CORE,BEADS	HCB1608KF-121T20		
B6203	024HC51216	CORE,BEADS	HCB1608KF-121T20		
B6205	024HC51216	CORE,BEADS	HCB1608KF-121T20		
B6502	024HC52216	CORE,BEADS	HCB1608KF-221T20		
B8501	024NC51212	CORE,BEADS	ACMS160808A121_2A		
B8503	024HC52216	CORE,BEADS	HCB1608KF-221T20		
B8504	024HC52216	CORE,BEADS	HCB1608KF-221T20		
△ CD301	06CP145007	CORD CONNECTOR	CP145007		
△ CD501	120A119909	CORD SET AC	M027001BK		
CP001	069E7M0630	CONNECTOR PCB SIDE	00_6216_022_000_808+		
CP301	06GG140019	CONNECTOR PCB SIDE	A2502WR-4A		
CD1201	06EH2U1604	CORD CONNECTOR	EH2U1604		
CD3002	12C40M1703	CORD JUMPER	2C40M1703		
CD3003	06EH265001	CORD CONNECTOR	EH265001		
CD4201	12C44O3402	CORD JUMPER	C44O3402		
CD6204	06CP231506	CORD CONNECTOR	CP231506		
CD6207	06EH254801	CORD CONNECTOR	EH254801		
CP2201	06GG250019	CONNECTOR PCB SIDE	A2001WR-5A		
CP2202	06GG230019	CONNECTOR PCB SIDE	A2001WR-3A		
CP2301	06GGVMT030	CONNECTOR PCB SIDE	FPC1.0D-WTX-22P		
CP2302	069EV5T011	CONNECTOR PCB SIDE	04_6232_105_102_800+		
CP2303	069EV4T011	CONNECTOR PCB SIDE	04_6232_104_102_800+		
CP2801	06GG270029	CONNECTOR PCB SIDE	A2001WV-7A		
CP2802	06GG2B0029	CONNECTOR PCB SIDE	A2001WV-11A		
CP2803	06GSAA1010	CONNECTOR PCB SIDE	C-001-5-4K221000		
CP2804	069S2U0739	CONNECTOR PCB SIDE	A2006WV0-2X15P		
CP3002	06GG260029	CONNECTOR PCB SIDE	A2001WV-6A		
CP3003	069E7M0630	CONNECTOR PCB SIDE	00_6216_022_000_808+		
CP3601	06GSYJ302C	CONNECTOR PCB SIDE	C-HDM-2-KK223000		
CP3602	06GSYJ302C	CONNECTOR PCB SIDE	C-HDM-2-KK223000		
CP4201	06G6YOT019	CONNECTOR PCB SIDE	05010HR-24B		
CP4203	06G7S21501	CONNECTOR PCB SIDE	WD-00021-R		
CP6201	06GG250029	CONNECTOR PCB SIDE	A2001WV-5A		

RESISTOR

RC..... CARBON RESISTOR

CAPACITORS

CC..... CERAMIC CAPACITOR
CE..... ALUMI ELECTROLYTIC CAPACITOR
CP..... POLYESTER CAPACITOR
CPP..... POLYPROPYLENE CAPACITOR
CPL..... PLASTIC CAPACITOR
CMP..... METAL POLYESTER CAPACITOR
CML..... METAL PLASTIC CAPACITOR
CMPP..... METAL POLYPROPYLENE CAPACITOR

SPEC.NO.	M57Q-01W
O/R NO.	K175107